

# PROJECTIONS AND PLANNING INFORMATION

## ► Madera County

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Serving the People of California



## **LABOR MARKET INFORMATION DIVISION**

### **MISSION**

WE PROMOTE CALIFORNIA'S ECONOMIC HEALTH BY PROVIDING INFORMATION TO HELP PEOPLE UNDERSTAND CALIFORNIA'S ECONOMY AND MAKE INFORMED LABOR MARKET CHOICES.

### **VISION**

WE ARE THE LABOR MARKET INFORMATION SOURCE FOR CALIFORNIA AND A NATIONAL LEADER IN LABOR MARKET INFORMATION. WE ARE AN INNOVATIVE, CREATIVE AND EXPERT CONSULTING ORGANIZATION; AN ECONOMIC DEVELOPMENT AND RESEARCH PARTNER; AND A PRESTIGIOUS AND HIGHLY CREDIBLE ORGANIZATION.







# *Projections & Planning Information*

## **Module A:**

# **Introduction**



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## Module A: INTRODUCTION

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# THEORY OF THE EARTH

## CHAPTER I. OF THE ORIGIN OF THE EARTH.

The origin of the earth is a subject which has long attracted the attention of philosophers and astronomers. The various hypotheses which have been proposed, and the arguments in support of them, are here presented in a clear and concise manner. The reader will find a full and complete account of the different theories, and the reasons for their acceptance or rejection. The subject is treated in a systematic and methodical manner, and the reader will be enabled to form a correct opinion of the truth of the matter.

# Note to Readers

The Employment Development Department's Labor Market Information Division (LMID) regularly collects, analyzes, and publishes information about California's labor market, which consists of approximately 15 million workers and 1 million employers. In addition to employment and unemployment data, LMID provides economic planning information, industry and occupational information, social and demographic information, and a variety of other statistics.

LMID produces the Projection and Planning Information publication (PPI) for 57 counties and the State. Each module within the PPI is designed to present data in a clear and usable form. The variety and number of reports within each module are intended to answer the most frequently asked questions. These modules are updated as new information becomes available and are delivered to customers for inclusion in a three-ring binder.

**Customers may choose some or all of the following modules:**

**Module A:** *Introduction Information about the featured county and population tables providing data for the past and present. Additional resources for exploring various occupations.*

- Area Profile
- Area Map
- County/City Population
- Population Estimates for California and Counties
- O\*NET The Occupational Network
- Standard Occupational Classification (SOC)
- EDD and Related Websites

**Module B:** *Labor Force Current and historical labor force, employment, unemployment and unemployment rates.*

- State Map of Current Annual Average Rates by County
- Annual Average Unemployment Rates
- Monthly and Annual Average Data

**Module C:** *Wage and Salary Employment Current and historical wage and salary employment data.*

- Annual Average Data
- Monthly Data

**Module D: Projections** *Information for estimating job opportunities, developing training programs, and gaining an insight into future employment trends.*

- Description of Industry and Occupational Tables
- Training Level Definitions
- Industry Trends and Outlook
- Employment by Major Industry
- Industry Employment Projections
- Employment by Major Occupational Group
- Occupations with the Greatest Absolute Job Growth (Growth plus Separations)
- Occupations with the Fastest Job Growth
- Occupational Employment Projections
- Occupations with Most Openings
- Occupations with Projected Declines
- Alphabetical Index of Occupations
- Description of Standard Industrial Classification (SIC) and North American Industry Classification (NAICS)
- Methods and Economic Assumptions

**Module E: Occupational Wages** *Occupational Employment Statistics (OES) Wage Survey results and explanation of methodology.*

- Occupational Wages for Selected Counties

**Module F: Social and Economic Data** *Tables from the U.S. Department of Commerce, the Census Bureau, and various State agencies.*

- Public Assistance Recipients by Program
- Public Assistance Recipients by Program (CalWORKs), Characteristics of Recipients
- Occupations with the Greatest Absolute Job Growth
- Lower Living Standard Income Levels and Poverty Guidelines
- Planning Information for Local Workforce Investment Areas
- Profile of General Demographic Characteristics
- Explanation of Terms and Concepts
- Nondiscrimination Information



# Madera County

Located in the heart of the Central Valley and the Sierra Mountains, Madera County covers 2,147 square miles of central California. The county is bordered by Mariposa and Merced counties to the north, Fresno County to the south, and Mono County to the east. Madera County terrain varies from the high, rugged country of the Sierra Nevada to the farming and industrial land of the valley floor below.

Bordered by the Chowchilla River on the north, and the San Joaquin River on the south, Madera County includes some of the richest agricultural land in the nation. Agriculture is the largest industry in the county; leading revenue commodities include almonds, milk, grapes, turkeys, cotton, cattle, and alfalfa.

Madera County's largest cities are Madera and Chowchilla; both are located along Highway 99, the area's primary transportation route. In fact, most of the county's industrial and residential activity is positioned along Highway 99, which provides a north-south corridor through the county. Highway 41 also traverses the county north to south and serves as the southern entrance to Yosemite National Park. Highway 152, running in an east-west direction, links Highway 99 and Interstate 5 for a direct route to the San Francisco Bay Area. Madera County's transportation system also includes two bus carriers and two rail lines that serve the valley area.

## Madera County

### Population of the County and Selected Cities 1980, 1990, 2000, and 2001

Political Subdivisions	1980 (a)	1990 (b)	2000 (c)	2001 (d)	Percent Change	
					1990 to 2000	2000 to 2001
<b>Total</b>	<b>63,116</b>	<b>88,090</b>	<b>123,109</b>	<b>129,400</b>	<b>39.8%</b>	<b>5.1%</b>
Chowchilla	5,122	5,930	11,127	15,000	87.6%	34.8%
Madera	21,732	29,281	43,207	45,850	47.6%	6.1%
Balance of County	36,262	52,879	68,775	68,500	30.1%	-0.4%

- (a) Census of Population, April 1, 1980.  
 (b) Census of Population, April 1, 1990.  
 (c) Census of Population, April 1, 2000.  
 (d) California Department of Finance revised estimates for January 1, 2001.  
 Parts may not add to total due to independent rounding.

# Madera County







## Population Estimates for California and Counties

	January		Percent Change		January		Percent Change
	2000	2001			2000	2001	
California	34,207,000	34,818,000	1.8%	Orange	2,867,700	2,925,700	2.0%
Alameda	1,455,300	1,479,100	1.6%	Placer	248,700	257,500	3.5%
Alpine	1,200	1,220	1.7%	Plumas	21,000	21,100	0.5%
Amador	35,250	35,400	0.4%	Riverside	1,557,800	1,609,400	3.3%
Butte	204,600	205,800	0.6%	Sacramento	1,230,700	1,258,600	2.3%
Calaveras	40,950	41,100	0.4%	San Benito	53,800	55,200	2.6%
Colusa	19,050	19,200	0.8%	San Bernardino	1,726,800	1,764,300	2.2%
Contra Costa	955,900	972,100	1.7%	San Diego	2,835,400	2,883,600	1.7%
Del Norte	28,050	28,100	0.2%	San Francisco	781,900	793,700	1.5%
El Dorado	157,200	159,700	1.6%	San Joaquin	568,300	583,700	2.7%
Fresno	810,300	823,900	1.7%	San Luis Obispo	248,200	252,100	1.6%
Glenn	26,800	26,800	0.0%	San Mateo	713,900	720,100	0.9%
Humboldt	127,400	127,800	0.3%	Santa Barbara	403,500	408,900	1.3%
Imperial	146,600	150,900	2.9%	Santa Clara	1,698,800	1,723,700	1.5%
Inyo	18,250	18,150	-0.5%	Santa Cruz	258,000	259,800	0.7%
Kern	671,300	685,800	2.2%	Shasta	164,300	165,700	0.9%
Kings	132,100	136,100	3.0%	Sierra	3,580	3,560	-0.6%
Lake	58,700	59,300	1.0%	Siskiyou	44,750	44,300	-1.0%
Lassen	34,850	35,900	3.0%	Solano	396,900	403,400	1.6%
Los Angeles	9,643,100	9,802,800	1.7%	Sonoma	461,700	468,800	1.5%
Madera	125,800	129,400	2.9%	Stanislaus	451,000	459,900	2.0%
Marin	248,700	250,400	0.7%	Sutter	79,700	80,900	1.5%
Mariposa	17,200	17,200	0.0%	Tehama	56,400	56,800	0.7%
Mendocino	87,100	87,300	0.2%	Trinity	13,150	13,050	-0.8%
Merced	212,800	216,700	1.8%	Tulare	373,100	377,500	1.2%
Modoc	9,550	9,600	0.5%	Tuolumne	54,800	55,200	0.7%
Mono	12,950	13,350	3.1%	Ventura	759,400	773,500	1.9%
Monterey	405,200	410,800	1.4%	Yolo	169,300	173,500	2.5%
Napa	125,100	126,200	0.9%	Yuba	60,900	60,800	-0.2%
Nevada	92,300	94,000	1.8%				

SOURCE: State of California, Department of Finance, Population Estimates for California Cities and Counties.  
Report E-1. Sacramento, California, May 2001.

# O\*NET

## The Occupational Information Network

The *Occupational Information Network* (O\*NET) is the U.S. Department of Labor's recent replacement to the long-standing Dictionary of Occupational Titles (DOT). First released in 1998 and made available as an Internet application in 2001, O\*NET was created for the general public to provide broad access to occupational information.

The O\*NET system includes information on skills, abilities, knowledge, work activities, and interests associated with occupations. This information can be used to facilitate career exploration, vocational counseling, and a variety of human resources functions, such as developing job orders and position descriptions and aligning training with current workplace needs.

The gathering and classification of information was done with many different users in mind, including human resource personnel, industry analysts, students, rehabilitation counselors, workforce researchers, managers, displaced workers and more. Information in O\*NET is available for over 950 occupations. Each occupational title and code is based on the most current version of the Standard Occupational Classification system.

O\*NET OnLine offers users the chance to:

- Find occupations to explore, either by skill requirements or using key words
- Search for occupations that use their skills
- Look at related occupations with similar skills requirements
- View and print snapshot reports listing top tasks and skills requirements for an occupation
- View occupation details

- Use crosswalks to find occupations using titles from other classification systems
- Connect to other on-line career information resources to see current wage and outlook information
- Access comprehensive information on-line

The information currently available through O\*NET was developed by job analysts; however, workers and employers themselves, describing what they do and the necessary skills, will contribute to data and ratings beginning in the year 2003.

The U.S. Department of Labor's Employment and Training Administration looked to both public and private entities in the development of O\*NET. State-based Occupational Analysis Field Centers and Assessment Research and Development Program Centers provided regional support. Private sector firms are also assisting with the implementation of the project.

If it is to be current, comprehensive and inclusive, the O\*NET System will require a continuous process of database building. DOL welcomes the participation of employers or representatives of organizations that can contribute occupational information. The massive and growing O\*NET data collection and database will be maintained by the newly established National O\*NET Consortium.

For further information contact O\*NET:

O\*NET Project  
DOL Office of Policy and Research  
200 Constitution Ave., NW, MS N5637  
Washington, DC 20210  
(202) 693-3660

<http://www.doleta.gov/programs/onet/>



# Standard Occupational Classification (SOC)

The Standard Occupational Classification (SOC) 1998 System was developed in response to a growing need for a universal occupational classification system—a system which would allow government agencies and private industry to produce comparable data. The SOC system was designed to cover all occupations in which work is performed for pay or profit and will be used by all federal agencies to classify workers into occupational categories for the purpose of collecting, calculating, or disseminating data.

## *General Characteristics of the Revised SOC*

This system classifies workers at four levels of aggregation:

- major group
- minor group
- broad occupation
- detailed occupation

All workers are classified into one of over 820 occupations, according to their occupational definition. To facilitate classification, all occupations are clustered into one of 23 major groups. Within these major groups, there are 96 minor groups, and 449 broad occupations. Each broad occupation includes detailed occupation(s) requiring similar job duties, skills, education, or experience.

The following example shows the hierarchical structure of the 1998 SOC:

19-0000 Life, physical, and social science occupations (*major group*)

19-000 Life scientists ( *minor group*)

19-1020 Biological scientists (*broad occupation*)

19-1021 Biochemists and biophysicists (*detailed occupation*)

19-1022 Microbiologists (*detailed occupation*)

19-1023 Zoologists and wildlife biologists (*detailed occupation*)

19-1029 Biological scientists, all other (*detailed occupation*)

Data collected by the 2000 Census of Population will be coded to the 1998 SOC; the Department of Labor's Occupational Information Network (O\*NET), adheres to the 1998 SOC. In fact, all federal government agencies that collect occupational data are expected to adopt the 1998 SOC over the next few years.

Additional information, updated revision plans, and information on the implementation of the 1998 SOC are available at the Bureau of Labor Statistics (BLS) Internet site:

<http://stats.bls.gov/soc>

# Job Services for Employers and Job Seekers

The Employment Development Department (EDD) is the largest source of personnel recruitment in California. There is no fee to employers or job seekers. Employers may wish to place a job order with EDD or ask about other available services. Job seekers may wish to complete an application to be matched against employer job orders or to request other assistance in finding a job or training.

The **EDD Job Service** is the public employment service for the State of California. From locations in over 200 communities, the EDD Job Service program serves the State's 900,000 employers and the one million or more job seekers who use the services each year.

The EDD Job Service is authorized by the federal Wagner-Peyser Act, as amended by the Workforce Investment Act of 1998. The EDD plans and delivers the services in California in partnership with other employment and training organizations in the One-Stop Career Centers created by the Workforce Investment Act of 1998. The EDD's Job Service offers a variety of services that bring employers with job openings and qualified job seekers together.

**CalJOBS** – California's Internet system for linking employer job listings and job seeker resumes. CalJOBS is available at EDD Job Service locations, One-Stop Career Centers, and anywhere there is Internet access.

Special features of CalJOBS include:

- No fees
- Wide variety of job listings and job seekers
- Easy access:

<http://www.caljobs.ca.gov>

**Employer Advisory Councils** work closely with Job Service to sponsor employer seminars, job fairs and other events which provide information and guidance for job seekers and local business.

## Additional Services to Job Seekers

- Job search workshops
- Referral to partner agencies that provide other employment related services, including training.

## Additional Services to Employers

- Reemployment services for dislocated workers.
- Current labor market information.
- Focused recruitment campaigns.
- Locally coordinated workforce preparation services.

If you are interested in any of the above services, or would like information about the location of the Job Service office nearest you, contact the call center listed below.

Bay Area	415-749-7503
Los Angeles	213-833-7900
Orange	714-518-2315
Riverside	909-955-2200
Sacramento	916-227-0301
San Diego	619-266-4200

# California's Labor Market and Occupational Information is only a click away ...

Use your computer to view and/or download important economic data directly from us —  
**24 hours a day, seven days a week!**

<http://www.calmis.ca.gov>

## **Data available on-line:**

*Agriculture* Statewide and county employment and earnings data for selected crops and industries.

*Demographics* Statewide and county census data, population tables, income statistics, and data for nondiscrimination programs.

*Industry* Current and historical employment data, projections of employment, hours and earnings, and size of firm data.

*Labor Force* Monthly, historical, and annual average labor force data by county, MSA, and statewide; labor market conditions in California, and employment characteristics.

*Resources* Contact lists for area consultants, local partners for the California Cooperative Occupational Information System (CCOIS), publications available, and resources for additional data.

*Occupations* Projections of employment by occupation, the California License Handbook, the California Occupational Guides, the Occupational Guide Wage Supplement and the Occupational Outlook Reports.

## **Visit our interactive on-line sites:**

*Labor Market Information for Economic Development (LMI4ED)* Provides industry trends and occupational information in an interactive application. Users can search for data by county and industry or occupation, select individual items for display, and produce customized tables. LMI4ED is available at:

<http://www.lmi4ed.ca.gov>

*California Career & Training Information System (CaCTIS)* Provides job seekers and career development professionals easy access to occupational wages and outlook, training information and job openings. CaCTIS is available at:

<http://www.cactis.ca.gov>

**Publications and Information:** Publications Desk (916) 262-2162

**Internet Assistance:** (916) 262-2213 or (916) 262-2340



# Related Websites

## Local Government

CA local government agencies

[http://www.ceres.ca.gov/geo\\_area/counties](http://www.ceres.ca.gov/geo_area/counties)

Sacramento Area Commerce and Trade Organization

<http://www.sactoedc.org>

## State Government

California's Home Page — Links to all state government agencies

<http://www.ca.gov>

EDD Home Page

<http://www.edd.ca.gov>

California Career Resource Network (CalCRN) — CalCRN is an interagency committee created to promote the development and use of occupational and career information.

<http://www.soicc.ca.gov>

California Department of Finance (DOF) — DOF provides demographic information, population estimates, and cost of living information.

<http://www.dof.ca.gov>

California One-Stop Career Centers

<http://www.sjtcc.ca.gov/sjtccweb/one-stop>

California School To Career (STC) — School-to-Career is a method of teaching that prepares students for college and the job market by integrating academic studies with real world applications and work based learning experiences.

<http://www.stc.ca.gov>

California's Job Bank

<http://www.caljobs.ca.gov>

Department Of Industrial Relations (DIR) — Worker's Compensation, labor law, and statistics.

<http://www.dir.ca.gov>

## Federal Government

Federal Department of Labor, Bureau of Labor Statistics

<http://stats.bls.gov>

Bureau of the Census

<http://www.census.gov>

Library of Congress

<http://lcweb.loc.gov>

America's Job Bank

<http://www.ajb.dni.us>



# *Projections & Planning Information*

## **Module B:**

# **Labor Force**



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## Module B: Labor Force

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# Labor Force

Labor force statistics are derived from the monthly Current Population Survey (CPS) conducted by the Bureau of Census for the Bureau of Labor Statistics (BLS). This monthly survey collects demographic data including employment and unemployment status for all states. The CPS sample consists of over 60,000 households nationwide with over 4,600 households in California. These data represent counts of individuals by place of residence rather than a count of jobs.

County-level labor force data, with the exception of Los Angeles county, are derived using a variety of information including CPS information, Wage and Salary Employment, and unemployment claims data for local areas.

*Civilian Labor Force* includes all non-institutional civilians, 16 years of age and older, who are working or looking for work: the sum of employed and unemployed.

*Civilian Employment* includes all individuals who are working, either for a wage or salary, self-employed, working at least one hour for pay or profit each week, or working at least 15 unpaid hours in a family business. Those who are on vacation, other kinds of leave, or involved in a labor dispute, are also counted as employed (whether or not they were paid for the time off).

*Civilian Unemployment* includes those individuals who are not working but are able, available and looking for work.

*Unemployment Rate* is the number of unemployed individuals expressed as a percentage of the civilian labor force.

## Suggestions for Users

Regular users of labor force data include grant writers, economic development professionals, government agencies and local social service agencies. This section also provides suggestions for the first time user, the job hunter and the occasional user.

- County labor force data are not seasonally adjusted. It is important to request "not seasonally

adjusted" labor force data for the state and the nation to make a valid comparison.

- The employment and unemployment figures tend to vary from month to month for many reasons. As a result, the annual average figures, over time, tend to be a better estimate of the labor force trends within the area.
- The unemployment rate may not reflect the economic conditions in all areas of the county. The labor market can vary greatly in different industries, in different occupations, and in different parts of the county.
- Month-to-month labor force data are a useful indicator of seasonal changes in an area, such as outdoor activities (i.e. construction), holiday hiring, school schedules and agricultural patterns.
- California labor force data for years prior to 1990 are not directly comparable with data for 1990 and later years due to the introduction of the 1990 Census population controls.

## Additional Sources of Information:

- Bureau of Labor Statistics, Occupational Outlook Handbook
- California Association for Local Economic Development (CALED)
- Local Chambers of Commerce
- Local Economic Development Organizations
- Newspapers

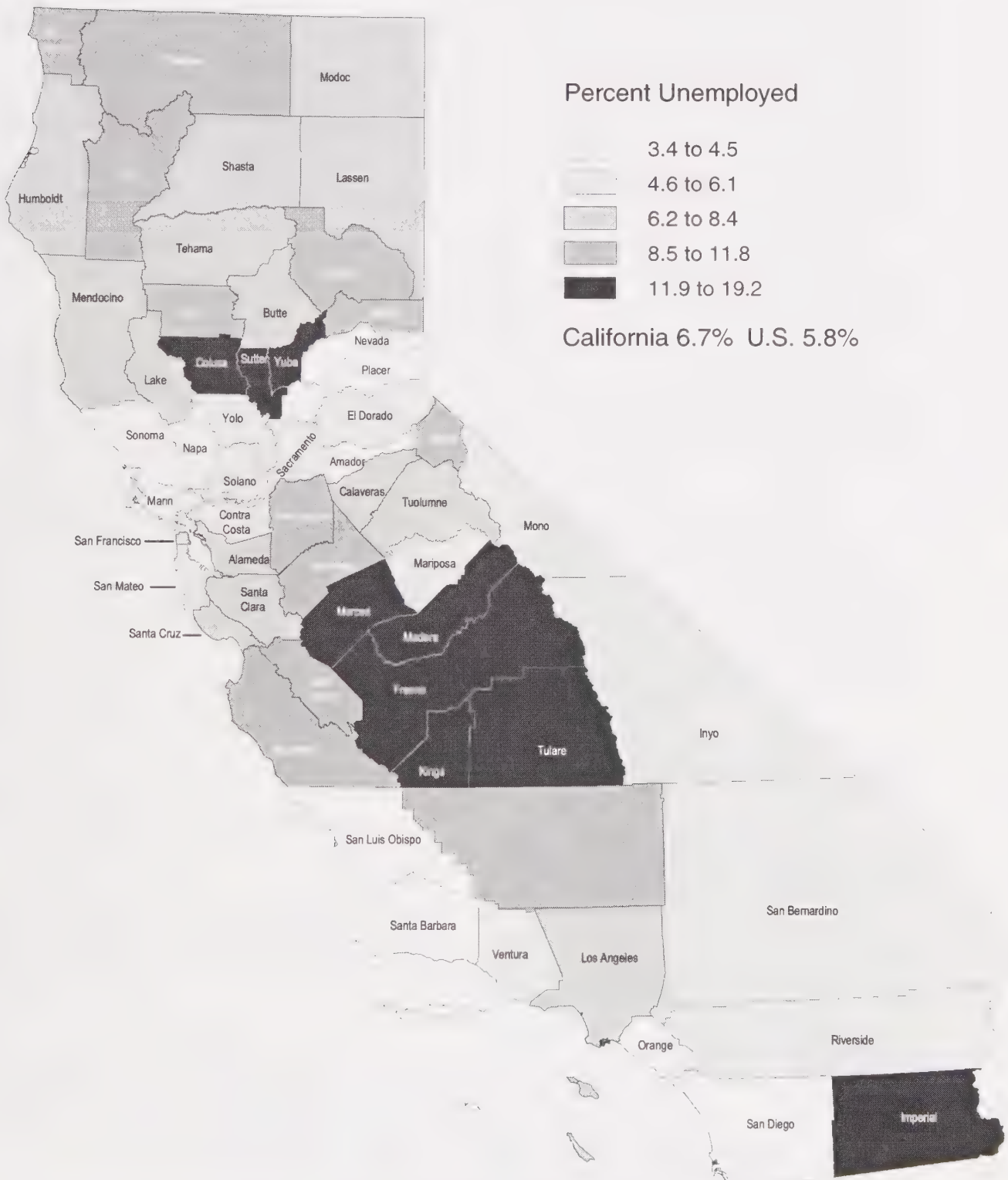
Electronic access to data is available through the Employment Development Department's Internet address at:

[www.calmis.ca.gov](http://www.calmis.ca.gov)

Please call **(916) 262-2162** for additional information or technical assistance, to obtain current monthly data, or contact information for local labor market consultants.

# County Unemployment Rates

2002 Annual Averages



**United States, California and Counties**  
**Unemployment Rates**  
2001, 2002 Annual Averages\*

	2001	2002		2001	2002
<b>U.S.</b>	4.7	5.8			
<b>CALIFORNIA</b>	5.4	6.7			
Alameda	4.6	6.8	Orange	3.0	4.1
Alpine	9.6	9.8	Placer	3.5	4.5
Amador	3.9	4.4	Plumas	8.5	9.0
Butte	7.1	7.7	Riverside	5.2	6.1
Calaveras	6.0	7.0	Sacramento	4.2	5.4
Colusa	15.6	16.4	San Benito	8.4	10.0
Contra Costa	3.3	5.2	San Bernardino	4.8	5.7
Del Norte	8.8	9.3	San Diego	3.2	4.3
El Dorado	4.0	5.0	San Francisco	5.2	7.3
Fresno	13.8	14.4	San Joaquin	8.8	10.1
Glenn	9.6	10.2	San Luis Obispo	2.8	3.4
Humboldt	6.0	6.5	San Mateo	2.9	5.0
Imperial	21.8	19.2	Santa Barbara	3.5	4.2
Inyo	4.9	5.9	Santa Clara	4.6	8.4
Kern	10.7	11.8	Santa Cruz	6.2	8.0
Kings	13.7	14.6	Shasta	6.8	7.4
Lake	7.3	8.4	Sierra	9.7	11.4
Lassen	6.7	6.7	Siskiyou	9.4	9.8
Los Angeles	5.7	6.8	Solano	4.1	5.5
Madera	12.2	12.7	Sonoma	3.0	4.5
Marin	2.5	3.9	Stanislaus	10.3	11.4
Mariposa	5.6	5.8	Sutter	12.4	13.6
Mendocino	6.7	7.2	Tehama	6.4	6.8
Merced	14.1	14.4	Trinity	9.9	9.7
Modoc	6.1	6.7	Tulare	15.5	15.5
Mono	5.3	5.6	Tuolumne	5.6	6.4
Monterey	9.4	10.5	Ventura	4.6	5.4
Napa	3.2	4.3	Yolo	4.3	5.0
Nevada	3.6	4.5	Yuba	12.1	13.3

\*March 2002 Benchmark figures.

**Madera County**  
**Civilian Labor Force, Employment and Unemployment**  
 (2002 Benchmark)  
 Annual Averages 1990–2002

	<b>Labor Force</b>	<b>Employment</b>	<b>Unemployment</b>	<b>Rate</b>
<b>2002</b>	56,600	49,400	7,200	12.7%
<b>2001</b>	55,200	48,500	6,700	12.2%
<b>2000</b>	54,600	48,200	6,400	11.7%
<b>1999</b>	53,100	47,000	6,100	11.5%
<b>1998</b>	52,700	46,000	6,700	12.7%
<b>1997</b>	52,400	45,400	7,000	13.4%
<b>1996</b>	52,100	44,800	7,300	14.0%
<b>1995</b>	51,100	43,400	7,700	15.1%
<b>1994</b>	48,900	41,500	7,400	15.1%
<b>1993</b>	48,000	40,300	7,700	16.0%
<b>1992</b>	47,000	39,200	7,800	16.6%
<b>1991</b>	44,300	37,700	6,600	14.9%
<b>1990</b>	41,700	36,100	5,600	13.4%

Notes:

- (1) The unemployment rate is calculated using unrounded data.
- (2) Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

Effective with the release of January 2003 data in February 2003, labor force data for all areas have been revised back to January 2000. This revision is the result of incorporation of the 2000 Census population controls at the State level and changes in methodology. Therefore, data for years prior to 2000 are not comparable with data for 2000 and later years.



**Madera County**  
**Civilian Labor Force, Employment and Unemployment**  
(2002 Benchmark)

	<b>Labor Force</b>	<b>Employment</b>	<b>Unemployment</b>	<b>Rate</b>
<b>2002</b> January	55,700	47,000	8,700	15.6%
February	55,100	46,900	8,200	14.9%
March	54,600	46,500	8,200	15.0%
April	55,800	48,100	7,700	13.8%
May	56,000	49,300	6,600	11.9%
June	56,600	50,000	6,600	11.7%
July	58,600	51,400	7,100	12.2%
August	58,200	52,300	5,900	10.2%
September	58,300	53,000	5,300	9.2%
October	55,700	49,800	5,900	10.6%
November	56,700	48,700	7,900	14.0%
December	57,300	49,200	8,000	14.0%
Annual Average	56,600	49,400	7,200	12.7%
<b>2001</b> January	53,800	46,100	7,600	14.2%
February	53,600	46,000	7,600	14.2%
March	53,700	45,500	8,200	15.3%
April	54,700	47,300	7,400	13.5%
May	54,500	48,300	6,300	11.5%
June	55,600	49,300	6,300	11.3%
July	57,000	50,500	6,500	11.4%
August	57,200	52,200	5,000	8.8%
September	55,800	51,100	4,800	8.5%
October	54,700	49,000	5,700	10.4%
November	55,100	47,800	7,300	13.2%
December	56,100	48,500	7,600	13.5%
Annual Average	55,200	48,500	6,700	12.2%
<b>2000</b> January	52,500	45,500	7,100	13.5%
February	52,700	46,000	6,700	12.7%
March	52,800	45,000	7,800	14.7%
April	53,400	46,500	6,900	12.8%
May	54,400	48,200	6,200	11.4%
June	55,800	49,300	6,500	11.6%
July	57,000	50,300	6,700	11.8%
August	57,100	51,700	5,400	9.5%
September	56,100	51,700	4,400	7.8%
October	54,100	48,600	5,500	10.2%
November	54,500	47,200	7,300	13.3%
December	54,500	47,700	6,800	12.5%
Annual Average	54,600	48,200	6,400	11.7%

**Madera County**  
**Civilian Labor Force, Employment and Unemployment**  
(2002 Benchmark)

<b>1999</b>	January	52,000	44,400	7,600	14.6%
	February	51,100	44,100	6,900	13.5%
	March	51,400	43,700	7,700	15.1%
	April	52,500	45,100	7,400	14.1%
	May	52,700	46,700	6,000	11.3%
	June	53,900	48,100	5,800	10.8%
	July	55,800	49,900	5,900	10.5%
	August	55,600	50,500	5,100	9.1%
	September	55,300	51,300	4,000	7.2%
	October	52,500	47,800	4,700	8.9%
	November	52,300	46,200	6,100	11.7%
	December	53,200	46,600	6,600	12.4%
	Annual Average	53,100	47,000	6,100	11.5%
<b>1998</b>	January	51,300	43,400	7,900	15.4%
	February	50,300	42,900	7,300	14.6%
	March	50,900	42,700	8,200	16.2%
	April	52,100	44,300	7,900	15.1%
	May	52,300	45,900	6,400	12.2%
	June	53,200	46,800	6,400	12.1%
	July	55,300	48,400	6,900	12.5%
	August	55,400	49,600	5,800	10.5%
	September	54,800	50,000	4,800	8.7%
	October	52,000	46,900	5,100	9.8%
	November	51,900	45,200	6,700	12.9%
	December	52,900	45,800	7,100	13.5%
	Annual Average	52,700	46,000	6,700	12.7%
<b>1997</b>	January	51,300	43,200	8,100	15.8%
	February	51,000	43,300	7,700	15.1%
	March	51,100	42,700	8,400	16.5%
	April	52,600	45,000	7,600	14.4%
	May	52,500	46,200	6,400	12.2%
	June	53,000	46,100	6,900	13.0%
	July	55,500	48,000	7,500	13.6%
	August	55,100	49,800	5,400	9.7%
	September	53,100	48,700	4,400	8.2%
	October	50,800	44,700	6,200	12.1%
	November	51,200	43,300	7,900	15.5%
	December	51,300	43,700	7,500	14.7%
	Annual Average	52,400	45,400	7,000	13.4%

**Madera County**  
**Civilian Labor Force, Employment and Unemployment**  
(2002 Benchmark)

<b>1996</b>	January	50,600	42,500	8,100	16.1%
	February	50,000	42,300	7,700	15.5%
	March	50,500	41,800	8,700	17.2%
	April	52,300	44,200	8,200	15.6%
	May	52,200	45,400	6,800	13.0%
	June	53,300	46,200	7,100	13.3%
	July	54,600	47,600	7,000	12.8%
	August	54,900	49,200	5,800	10.5%
	September	54,300	48,800	5,500	10.2%
	October	51,100	43,900	7,200	14.1%
	November	50,500	43,000	7,500	14.9%
	December	50,800	43,300	7,500	14.7%
	Annual Average	52,100	44,800	7,300	14.0%
<b>1995</b>	January	49,200	41,200	8,000	16.2%
	February	49,300	41,000	8,300	16.8%
	March	49,900	40,700	9,200	18.4%
	April	51,500	42,600	8,900	17.2%
	May	51,800	43,300	8,500	16.3%
	June	51,500	44,200	7,300	14.2%
	July	53,300	45,500	7,800	14.6%
	August	53,100	46,300	6,800	12.8%
	September	52,700	47,600	5,100	9.8%
	October	49,500	44,000	5,500	11.2%
	November	51,000	42,400	8,600	16.8%
	December	50,700	42,500	8,200	16.1%
	Annual Average	51,100	43,400	7,700	15.1%
<b>1994</b>	January	48,600	40,400	8,200	16.9%
	February	48,200	39,900	8,300	17.2%
	March	48,600	39,700	8,900	18.3%
	April	49,700	41,300	8,400	16.9%
	May	49,800	41,700	8,100	16.2%
	June	48,900	41,900	7,000	14.4%
	July	50,700	42,700	8,000	15.8%
	August	50,600	43,900	6,700	13.2%
	September	49,700	44,400	5,300	10.7%
	October	47,300	41,400	5,900	12.4%
	November	47,600	40,000	7,600	16.0%
	December	47,300	40,400	6,900	14.7%
	Annual Average	48,900	41,500	7,400	15.1%

**Madera County**  
**Civilian Labor Force, Employment and Unemployment**  
(2002 Benchmark)

<b>1993</b>	January	46,200	37,700	8,500	18.4%
	February	45,700	37,500	8,200	18.0%
	March	46,100	37,200	8,900	19.2%
	April	48,100	39,600	8,500	17.7%
	May	49,100	40,800	8,300	16.8%
	June	47,900	40,800	7,100	14.8%
	July	50,400	42,000	8,400	16.7%
	August	51,000	44,000	7,000	13.6%
	September	49,700	44,000	5,700	11.5%
	October	46,700	40,200	6,500	14.0%
	November	47,400	39,300	8,100	17.1%
	December	47,600	40,100	7,500	15.8%
	Annual Average	48,000	40,300	7,700	16.0%
<b>1992</b>	January	44,000	36,900	7,100	16.1%
	February	44,400	36,300	8,100	18.2%
	March	44,900	36,500	8,400	18.7%
	April	47,200	38,700	8,500	18.0%
	May	47,800	40,000	7,800	16.3%
	June	48,000	40,000	8,000	16.6%
	July	49,700	41,600	8,100	16.3%
	August	50,100	43,900	6,200	12.4%
	September	48,200	42,400	5,800	12.0%
	October	46,800	38,300	8,500	18.2%
	November	46,800	37,800	9,000	19.2%
	December	46,500	38,100	8,400	18.1%
	Annual Average	47,000	39,200	7,800	16.6%
<b>1991</b>	January	42,100	36,100	6,000	14.3%
	February	42,400	35,500	6,900	16.3%
	March	43,300	35,500	7,800	18.0%
	April	44,200	36,600	7,600	17.3%
	May	43,900	37,300	6,600	15.1%
	June	44,400	38,500	5,900	13.3%
	July	45,500	38,800	6,700	14.8%
	August	46,600	40,300	6,300	13.5%
	September	46,100	41,700	4,400	9.6%
	October	43,700	38,100	5,600	12.7%
	November	44,600	36,700	7,900	17.8%
	December	43,400	36,700	6,700	15.5%
	Annual Average	44,300	37,700	6,600	14.9%



**Madera County**  
**Civilian Labor Force, Employment and Unemployment**  
(2002 Benchmark)

<b>1990</b> January	38,600	34,100	4,500	11.6%
February	39,700	33,800	5,900	14.8%
March	40,500	33,800	6,700	16.7%
April	42,500	35,800	6,700	15.7%
May	41,800	36,700	5,200	12.4%
June	42,600	37,600	5,000	11.8%
July	43,600	37,900	5,600	12.9%
August	44,100	39,300	4,800	10.8%
September	43,200	39,500	3,700	8.6%
October	41,100	35,600	5,500	13.4%
November	41,900	34,600	7,300	17.4%
December	40,700	34,500	6,200	15.3%
Annual Average	41,700	36,100	5,600	13.4%

Notes:

- (1) The unemployment rate is calculated using unrounded data.
- (2) Due to the introduction of the 1990 census population figures, the data for years prior to 1990 are not comparable with data for 1990 and later years.

Effective with the release of January 2003 data in February 2003, labor force data for all areas have been revised back to January 2000. This revision is the result of incorporation of the 2000 Census population controls at the State level and changes in methodology. Therefore, data for years prior to 2000 are not comparable with data for 2000 and later years.



*Projections  
& Planning  
Information*

**Module C:**

**Wage & Salary  
Employment**





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# Wage and Salary Employment

Industry employment data reflect jobs by place of work and by broad industry categories. The data do not include the self-employed, unpaid family workers or private household employees. Jobs located in a county or Metropolitan Statistical Area (MSA) that pay wages and salaries are counted, although workers may live outside the area. Jobs are counted regardless of the number of hours worked. Individuals who hold more than one job may be counted more than once.

## Current Employment Statistics

These data are based on the Current Employment Statistics (CES) survey. The CES survey summarizes monthly employment, and hours and earnings data from a sample of California employers. This survey is also referred to as the establishment, or wage and salary employment survey. The estimates are revised in the following month as job information is received from additional employers. Final revisions to the statewide and local area data, referred to as Benchmark data, are made each March for the previous two years based on payroll tax reports submitted by California employers covered by the Unemployment Insurance program.

## Classification

Formerly, industry employment data were coded using the Standard Industrial Classification (SIC) system. In 1998, California began to transition from SIC to the new North American Industry Classification System (NAICS).

NAICS is the product of a cooperative effort on the part of the statistical agencies of the United States, Canada, and Mexico. It uses a production-oriented approach to categorize economic units. Units with similar production processes are classified in the same industry. NAICS focuses on how products and services are created, as opposed to SIC which focuses on what is produced. Using NAICS yields significantly different industry groupings than those produced using SIC. Due to these differences, NAICS data will not be directly comparable to the SIC-based data for earlier years.

Many programs within EDD produce or use data by industry, but some of these programs have not

yet transitioned from SIC to NAICS. For example, while the official estimates of employment by industry (also known as the Current Employment Statistics or CES program) began publishing data by NAICS with the release of Benchmark and monthly average data in February of 2003, the projections of employment by industry and occupation will not incorporate NAICS codes until the release of the 2002-2012 data (anticipated release in late 2003 or early 2004).

## Annual Average Data

Annual average data are derived by adding up the monthly data for each industry and dividing by twelve to determine an actual annual average. These annual average data may reflect major business openings, expansions, and closings. Or, these data may reflect trends affecting an entire industry such as economic conditions, structural and technological changes.

## Users of Wage and Salary Data

Economic developers, firms considering relocation, government agencies, grant writers, universities and anyone preparing reports on employment use wage and salary employment information to identify local industry trends. People looking for work and those counseling or placing others may learn about prospects for employment in various industries. Anyone seeking background information may use the wage and salary industry employment tables to look at the county's economy as a whole; at one industry; and/or at related industries for a firm's suppliers or for potential markets.

## Points to Consider

Monthly job estimates are not adjusted for seasonal changes in employment. It is important to keep in mind that month-to-month changes may be due to regular seasonal patterns in an industry. For instance, during the holiday shopping season, retail jobs increase and during the summer, there are more workers in the construction industry. On the other hand, changes may reflect new businesses, expansions, or closings. Comparison of monthly changes for the same period in prior years will provide a better understanding of whether the change is seasonal or atypical.

Monthly fluctuations in wage and salary employment are an essential part of the changes that occur in the dynamic economy of a county or region. It is important to study wage and salary employment data over time to evaluate the strength of the local economy.

Wage and salary employment data identify which industries have the largest number of jobs. However, an industry with a large number of workers may not necessarily be expanding; it may even be downsizing, while new and expanding industries may not have large numbers of existing jobs but are a good source for new job opportunities.

Annual average data, over time, tend to be a better indicator of employment trends for the various industries in an area.

#### **Additional Sources of Information**

You may consult the labor force and industry and occupational projections modules of this report for more information on economic conditions in the county. Or, you may speak with the Labor Market Information Division's (LMID) area consultants located throughout the state who are knowledgeable about the economic activities within their local areas. Other sources of information include:

- ï U. S. Bureau of Labor Statistics
- ï Local Chambers of Commerce
- ï Local Economic Development Organizations
- ï Local Newspapers
- ï Universities and Colleges

#### **Automated Access**

Access to current data is available through the Employment Development Department's Internet address at:

**[www.calmis.ca.gov](http://www.calmis.ca.gov)**

For technical assistance or additional information about the Employment Development Department's website, please call (916) 262-2162. To obtain contact information for local labor market consultants or to obtain current monthly data, customers may also call (916) 262-2162, or FAX (916) 262-2443.



**Fresno MSA**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
2000-2002 Annual Averages\*

Industry Title	2000	2001	2002
Total Wage and Salary	365,400	362,000	366,800
Total Farm	67,500	58,100	55,700
Total Nonfarm	298,000	303,900	311,100
Total Private	225,300	228,900	233,500
Goods Producing	47,500	48,300	48,600
Natural Resources and Mining	500	400	400
Construction	16,500	17,500	18,500
Building, Develop & Gen Cont & Hvy Const	5,700	6,000	6,000
Specialty Trade Contractors	10,900	11,500	12,400
Manufacturing	30,500	30,300	29,800
Durable Goods	14,100	13,600	12,500
Nondurable Goods	16,400	16,700	17,300
Food Manufacturing	11,600	11,800	12,100
Residual-Beverage and Tobacco Product Mfg	4,800	4,900	5,200
Service Providing	250,500	255,700	262,500
Trade, Transportation and Utilities	57,400	58,400	58,800
Wholesale Trade	12,600	12,600	12,800
Merchant Wholesalers, Durable Goods	6,200	6,100	6,100
Merchant Wholesalers, Nondurable Goods	5,500	5,600	5,700
Wholesale Electronic Markets and Agents and Bro	900	900	1,000
Retail Trade	35,100	35,800	35,900
Food and Beverage Stores	6,900	7,300	7,300
Clothing and Clothing Accessories Stores	2,200	2,300	2,400
General Merchandise Stores	6,700	6,700	7,100
Residual-Miscellaneous Store Retailers	19,400	19,500	19,200
Transportation, Warehousing and Utilities	9,700	10,000	10,100
Transportation and Warehousing	8,100	8,500	8,600
Utilities	1,600	1,500	1,500
Information	5,600	5,700	5,300
Financial Activities	14,100	14,800	14,900
Finance and Insurance	9,500	9,900	9,800
Insurance Carriers and Related	5,100	4,600	4,000
Residual-Credit Intermediation and Related Activiti	4,400	5,300	5,800
Real Estate and Rental and Leasing	4,600	4,900	5,000
Professional and Business Services	27,700	25,800	27,500
Professional, Scientific and Technical Services	8,600	8,400	8,700
Management of Companies and Enterprises	5,400	4,900	5,200
Administrative and Support and Waste Services	13,800	12,500	13,600
Administrative and Support Services	13,200	11,800	12,900
Employment Services	5,200	4,400	4,600
Residual-Other Support Services	7,900	7,400	8,300
Waste Management and Remediation Services	700	700	700

\*March 2002 Benchmark figures.

**Fresno MSA**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
2000ñ2002 Annual Averages\*

Industry Title	2000	2001	2002
Educational and Health Services	35,000	36,900	38,700
Educational Services	2,900	3,100	3,200
Health Care and Social Assistance	32,200	33,800	35,500
Ambulatory Health Care Services	11,000	11,300	11,900
Hospitals	11,100	11,600	12,500
Nursing and Residential Care Facilities	6,600	7,100	7,000
Social Assistance	3,600	3,800	4,100
Leisure and Hospitality	26,800	27,000	27,200
Arts, Entertainment, and Recreation	3,200	3,000	3,300
Accommodation and Food Service	23,600	24,000	23,900
Accommodation	2,600	2,500	2,600
Food Services and Drinking Places	21,000	21,500	21,200
Full-Service Restaurants	9,400	9,200	8,900
Limited-Service Eating Places	10,600	11,300	11,300
Residual-Special Food Services	1,100	1,000	1,000
Other Services	11,200	12,100	12,500
Government	72,700	75,000	77,600
Federal Government	11,900	12,100	12,700
State and Local Government	60,800	62,900	64,900
State Government	10,800	11,500	11,600
State Government Education	3,400	3,600	3,700
Other State Government	7,500	7,900	7,900
Local Government	50,000	51,500	53,300
Local Government Education	32,500	33,500	34,500
County	9,000	9,300	9,700
City	5,400	5,500	5,500
Other Local Government	3,000	3,200	3,600

\*March 2002 Benchmark figures.

**Fresno MSA**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January-December 2000\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Total Wage and Salary	340,300	343,500	338,200	358,800	370,000	378,200	383,800	390,700	401,200	365,300	355,200	360,100	365,400
Total Farm	52,400	52,200	44,500	63,500	71,500	79,000	83,700	90,300	98,900	63,300	53,000	57,500	67,500
Total Nonfarm	287,900	291,300	293,700	295,300	298,500	299,200	300,100	300,400	302,300	302,000	302,200	302,600	298,000
Total Private	216,900	218,600	220,100	221,500	223,500	226,900	229,500	231,200	230,900	227,900	227,900	228,600	225,300
Goods Producing	44,900	45,000	44,900	45,300	45,900	47,300	50,600	51,100	50,400	48,500	48,100	47,500	47,500
Natural Resources and Mining	400	400	400	400	500	500	500	500	500	500	500	400	500
Construction	15,400	15,300	15,400	15,900	16,200	16,900	17,100	17,300	17,600	16,900	17,100	17,100	16,500
Building, Develop & Gen Cont & Hvy Const	5,500	5,300	5,300	5,400	5,600	5,800	5,800	6,000	6,200	5,700	5,700	5,700	5,700
Specialty Trade Contractors	9,900	10,000	10,100	10,500	10,600	11,100	11,300	11,300	11,400	11,200	11,400	11,400	10,900
Manufacturing	29,100	29,300	29,100	29,000	29,200	29,900	33,000	33,300	32,300	31,100	30,500	30,000	30,500
Durable Goods	13,900	14,100	14,100	14,100	14,200	14,100	14,300	14,200	14,200	13,800	14,000	13,900	14,100
Nondurable Goods	15,200	15,200	15,000	14,900	15,000	15,800	18,700	19,100	18,100	17,300	16,500	16,100	16,400
Food Manufacturing	10,300	10,400	10,200	10,300	10,400	11,100	14,000	14,300	13,200	12,400	11,700	11,100	11,600
Residual-Beverage and Tobacco Product Mfg	4,900	4,800	4,800	4,600	4,600	4,700	4,700	4,800	4,900	4,900	4,800	5,000	4,800
Service Providing	243,000	246,300	248,800	250,000	252,600	251,900	249,500	249,300	251,900	253,500	254,100	255,100	250,500
Trade, Transportation and Utilities	55,700	55,600	56,000	55,900	56,600	57,300	57,600	58,100	58,300	58,100	59,300	59,800	57,400
Wholesale Trade	12,200	12,300	12,400	12,600	12,700	12,800	12,900	13,000	12,800	12,600	12,600	12,600	12,600
Merchant Wholesalers, Durable Goods	6,100	6,200	6,200	6,200	6,200	6,300	6,300	6,300	6,400	6,100	6,100	6,100	6,200
Merchant Wholesalers, Nondurable Goods	5,200	5,200	5,200	5,500	5,600	5,700	5,700	5,800	5,600	5,600	5,600	5,600	5,500
Wholesale Electronic Markets and Agents and Brokers	900	900	1,000	900	900	800	900	900	800	900	900	900	900
Retail Trade	34,200	34,200	34,400	34,000	34,400	34,900	34,800	35,000	35,300	35,500	36,800	37,400	35,100
Food and Beverage Stores	6,600	6,600	6,600	6,400	6,500	6,800	7,000	6,900	7,200	7,200	7,300	7,200	6,900
Clothing and Clothing Accessories Stores	2,200	2,200	2,200	2,100	2,100	2,200	2,100	2,100	2,100	2,200	2,400	2,600	2,200
General Merchandise Stores	6,700	6,400	6,400	6,400	6,500	6,500	6,400	6,400	6,400	6,500	7,500	7,700	6,700
Residual-Miscellaneous Store Retailers	18,700	19,000	19,200	19,100	19,300	19,400	19,300	19,600	19,600	19,600	19,600	19,900	19,400
Transportation, Warehousing and Utilities	9,300	9,100	9,200	9,300	9,500	9,600	9,900	10,100	10,200	10,000	9,900	9,800	9,700
Transportation and Warehousing	7,800	7,600	7,700	7,700	7,800	8,000	8,400	8,500	8,600	8,500	8,400	8,200	8,100
Utilities	1,500	1,500	1,500	1,600	1,700	1,600	1,500	1,600	1,600	1,500	1,500	1,600	1,600
Information	5,400	5,500	5,500	5,500	5,500	5,600	5,700	5,700	5,700	5,700	5,700	5,700	5,600

\*March 2002 Benchmark figures.



**Fresno MSA**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January-December 2000\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Financial Activities	14,100	14,300	14,300	13,900	13,900	14,200	14,100	14,100	14,200	14,100	14,100	14,300	14,100
Finance and Insurance	9,500	9,700	9,700	9,400	9,300	9,500	9,400	9,400	9,500	9,500	9,500	9,600	9,500
Insurance Carriers and Related	5,100	5,200	5,300	5,000	5,000	5,000	5,000	4,900	5,000	5,000	5,100	5,100	5,100
Residual-Credit Intermediation and Related Activities	4,400	4,500	4,400	4,400	4,300	4,500	4,400	4,500	4,500	4,500	4,400	4,500	4,400
Real Estate and Rental and Leasing	4,600	4,600	4,600	4,500	4,600	4,700	4,700	4,700	4,700	4,600	4,600	4,700	4,600
Professional and Business Services	26,800	26,900	27,100	28,400	28,200	28,500	27,600	27,800	27,900	28,100	27,600	28,000	27,700
Professional, Scientific and Technical Services	8,700	8,900	8,900	8,800	8,500	8,700	8,200	8,300	8,300	8,500	8,300	8,600	8,600
Management of Companies and Enterprises	5,300	5,300	5,300	5,300	5,300	5,300	5,300	5,300	5,400	5,500	5,500	5,600	5,400
Administrative and Support and Waste Services	12,800	12,700	12,900	14,300	14,400	14,500	14,100	14,200	14,200	14,100	13,800	13,800	13,800
Administrative and Support Services	12,100	12,100	12,300	13,600	13,800	13,900	13,400	13,500	13,500	13,400	13,100	13,200	13,200
Employment Services	4,900	4,900	5,000	5,600	5,600	5,600	5,200	5,200	5,100	5,300	5,200	5,100	5,200
Residual-Other Support Services	7,200	7,200	7,300	8,000	8,200	8,300	8,200	8,300	8,400	8,100	7,900	8,100	7,900
Waste Management and Remediation Services	700	600	600	700	600	600	700	700	700	700	700	600	700
Educational and Health Services	34,000	34,600	34,800	34,900	34,900	35,100	34,800	34,900	35,500	35,500	35,600	35,800	35,000
Educational Services	2,600	2,900	2,800	2,800	2,900	2,800	2,800	2,800	2,900	3,000	3,000	2,900	2,900
Health Care and Social Assistance	31,400	31,700	32,000	32,100	32,000	32,300	32,000	32,100	32,600	32,500	32,600	32,900	32,200
Ambulatory Health Care Services	10,800	10,900	11,000	11,000	11,000	11,100	10,800	10,900	11,000	10,900	10,900	11,100	11,000
Hospitals	10,900	11,000	11,100	11,000	10,900	10,900	11,100	11,100	11,100	11,200	11,200	11,200	11,100
Nursing and Residential Care Facilities	6,400	6,400	6,500	6,500	6,500	6,600	6,500	6,600	6,900	6,800	6,800	6,900	6,600
Social Assistance	3,300	3,400	3,400	3,600	3,600	3,700	3,600	3,500	3,600	3,600	3,700	3,700	3,600
Leisure and Hospitality	25,400	25,700	26,200	26,400	27,200	27,800	28,200	28,200	27,400	26,700	26,300	26,200	26,800
Arts, Entertainment, and Recreation	2,600	2,700	2,800	3,100	3,700	4,000	3,900	3,800	3,300	3,000	2,800	2,900	3,200
Accommodation and Food Service	22,800	23,000	23,400	23,300	23,500	23,800	24,300	24,400	24,100	23,700	23,500	23,300	23,600
Accommodation	2,300	2,300	2,500	2,500	2,500	2,700	3,000	3,000	2,800	2,600	2,500	2,300	2,600
Food Services and Drinking Places	20,500	20,700	20,900	20,800	21,000	21,100	21,300	21,400	21,300	21,100	21,000	21,000	21,000
Full-Service Restaurants	9,100	9,300	9,400	9,300	9,400	9,400	9,600	9,600	9,600	9,200	9,200	9,100	9,400
Limited-Service Eating Places	10,500	10,400	10,600	10,500	10,500	10,600	10,600	10,700	10,500	10,600	10,700	10,700	10,600
Residual-Special Food Services	900	1,000	900	1,000	1,100	1,100	1,100	1,100	1,200	1,300	1,100	1,200	1,100
Other Services	10,600	11,000	11,300	11,200	11,300	11,100	10,900	11,300	11,500	11,200	11,200	11,300	11,200

\*March 2002 Benchmark figures.



**Fresno MSA**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January–December 2000\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Government	71,000	72,700	73,600	73,800	75,000	72,300	70,600	69,200	71,400	74,100	74,300	74,000	72,700
Federal Government	11,400	12,200	12,600	12,500	13,500	11,500	11,600	11,200	11,400	11,600	11,600	11,500	11,900
State and Local Government	59,600	60,500	61,000	61,300	61,500	60,800	59,000	58,000	60,000	62,500	62,700	62,500	60,800
State Government	10,600	10,400	10,700	10,800	10,900	11,000	10,500	10,200	10,800	11,300	11,400	11,400	10,800
State Government Education	3,400	3,200	3,500	3,500	3,500	3,500	2,900	2,600	3,100	3,600	3,700	3,700	3,400
Other State Government	7,200	7,200	7,200	7,300	7,400	7,500	7,600	7,600	7,700	7,700	7,700	7,700	7,500
Local Government	49,000	50,100	50,300	50,500	50,600	49,800	48,500	47,800	49,200	51,200	51,300	51,100	50,000
Local Government Education	32,000	33,100	33,300	33,400	33,500	32,100	30,800	30,100	31,600	32,900	33,700	33,500	32,500
County	8,700	8,800	8,800	8,800	8,800	9,000	9,000	9,000	9,100	9,900	9,200	9,200	9,000
City	5,400	5,300	5,300	5,400	5,400	5,600	5,600	5,600	5,400	5,400	5,400	5,400	5,400
Other Local Government	2,900	2,900	2,900	2,900	2,900	3,100	3,100	3,100	3,100	3,000	3,000	3,000	3,000

\*March 2002 Benchmark figures.

**Fresno MSA**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January-December 2001\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Total Wage and Salary	343,200	340,900	339,400	355,300	365,100	372,200	377,800	388,100	386,200	362,200	353,500	359,800	362,000
Total Farm	47,600	43,000	38,800	53,600	61,100	66,400	71,700	79,700	79,600	55,900	46,300	52,900	58,100
Total Nonfarm	295,600	297,900	300,600	301,700	304,000	305,800	306,100	308,400	306,600	306,300	307,200	306,900	303,900
Total Private	221,500	223,100	224,800	225,600	228,400	229,800	232,700	235,800	233,200	230,700	230,300	230,700	228,900
Goods Producing	46,300	46,500	46,900	46,700	47,800	48,100	50,200	52,100	51,200	49,000	47,200	47,100	48,300
Natural Resources and Mining	400	400	400	400	400	500	500	500	500	500	400	400	400
Construction	16,100	16,300	16,600	17,000	17,600	18,200	18,000	18,400	18,100	18,200	17,800	17,800	17,500
Building, Develop & Gen Cont & Hvy Const	5,400	5,500	5,600	5,900	6,000	6,200	6,200	6,400	6,300	6,300	6,100	6,100	6,000
Specialty Trade Contractors	10,700	10,800	11,000	11,100	11,600	12,000	11,800	12,000	11,800	11,900	11,700	11,700	11,500
Manufacturing	29,800	29,800	29,900	29,300	29,800	29,400	31,700	33,200	32,600	30,300	29,000	28,900	30,300
Durable Goods	14,600	14,600	14,500	14,000	13,900	13,100	13,300	13,200	13,200	12,900	12,900	12,800	13,600
Nondurable Goods	15,200	15,200	15,400	15,300	15,900	16,300	18,400	20,000	19,400	17,400	16,100	16,100	16,700
Food Manufacturing	10,200	10,300	10,500	10,400	11,200	11,500	13,600	15,000	14,400	12,400	11,300	11,300	11,800
Residual-Beverage and Tobacco Product Mfg	5,000	4,900	4,900	4,900	4,700	4,800	4,800	5,000	5,000	5,000	4,800	4,800	4,900
Service Providing	249,300	251,400	253,700	255,000	256,200	257,700	255,900	256,300	255,400	257,300	260,000	259,800	255,700
Trade, Transportation and Utilities	56,900	56,600	57,100	57,400	57,900	58,200	58,600	59,200	59,100	59,200	60,100	60,300	58,400
Wholesale Trade	12,200	12,300	12,400	12,600	12,600	12,700	13,000	13,200	12,900	12,700	12,500	12,400	12,600
Merchant Wholesalers, Durable Goods	6,100	6,200	6,200	6,100	6,100	6,200	6,200	6,200	6,200	6,100	6,100	6,000	6,100
Merchant Wholesalers, Nondurable Goods	5,200	5,300	5,300	5,600	5,600	5,700	5,900	6,100	5,900	5,700	5,600	5,500	5,600
Wholesale Electronic Markets and Agents and Brokers	900	800	900	900	900	800	900	900	800	900	800	900	900
Retail Trade	35,100	34,800	35,000	35,100	35,400	35,600	35,400	35,600	35,800	36,100	37,400	37,800	35,800
Food and Beverage Stores	7,100	7,100	7,200	7,200	7,300	7,500	7,300	7,200	7,400	7,500	7,500	7,300	7,300
Clothing and Clothing Accessories Stores	2,300	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,300	2,500	2,600	2,300
General Merchandise Stores	6,600	6,200	6,200	6,400	6,400	6,400	6,500	6,500	6,600	6,800	7,500	8,000	6,700
Residual-Miscellaneous Store Retailers	19,100	19,300	19,400	19,300	19,500	19,500	19,400	19,700	19,600	19,500	19,900	19,900	19,500
Transportation, Warehousing and Utilities	9,600	9,500	9,700	9,700	9,900	9,900	10,200	10,400	10,400	10,400	10,200	10,100	10,000
Transportation and Warehousing	8,000	7,900	8,100	8,200	8,400	8,400	8,700	8,900	8,900	8,900	8,700	8,600	8,500
Utilities	1,600	1,600	1,600	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Information	6,100	6,000	6,000	5,700	5,700	5,600	5,700	5,600	5,500	5,300	5,400	5,400	5,700

\*March 2002 Benchmark figures.

**Fresno MSA**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January-December 2001\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Financial Activities	14,500	14,700	14,800	14,800	14,900	15,000	15,100	15,000	14,900	14,600	14,600	14,700	14,800
Finance and Insurance	9,900	10,000	10,100	9,900	9,900	9,900	9,900	9,800	9,800	9,800	9,800	9,800	9,900
Insurance Carriers and Related	4,900	4,900	4,900	4,800	4,700	4,700	4,600	4,500	4,400	4,300	4,300	4,200	4,600
Residual-Credit Intermediation and Related Activities	5,000	5,100	5,200	5,100	5,200	5,200	5,300	5,300	5,400	5,500	5,500	5,600	5,300
Real Estate and Rental and Leasing	4,600	4,700	4,700	4,900	5,000	5,100	5,200	5,200	5,100	4,800	4,800	4,900	4,900
Professional and Business Services	25,600	25,700	25,600	25,600	25,700	26,300	25,600	25,800	25,500	26,000	26,000	26,200	25,800
Professional, Scientific and Technical Services	8,200	8,500	8,500	8,600	8,400	8,300	8,300	8,400	8,200	8,300	8,400	8,400	8,400
Management of Companies and Enterprises	4,900	5,000	5,000	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900
Administrative and Support and Waste Services	12,500	12,200	12,100	12,100	12,400	13,100	12,400	12,500	12,400	12,800	12,700	12,900	12,500
Administrative and Support Services	11,800	11,600	11,500	11,400	11,700	12,400	11,700	11,800	11,700	12,100	12,000	12,200	11,800
Employment Services	4,500	4,400	4,500	4,100	4,200	4,900	4,300	4,400	4,400	4,400	4,400	4,400	4,400
Residual-Other Support Services	7,300	7,200	7,000	7,300	7,500	7,500	7,400	7,400	7,300	7,700	7,600	7,800	7,400
Waste Management and Remediation Services	700	600	600	700	700	700	700	700	700	700	700	700	700
Educational and Health Services	35,400	35,900	36,200	36,800	36,800	36,700	36,900	37,200	37,600	37,600	38,000	38,000	36,900
Educational Services	2,800	3,100	3,200	3,300	3,000	2,900	2,900	2,800	3,200	3,400	3,500	3,400	3,100
Health Care and Social Assistance	32,600	32,800	33,000	33,500	33,800	33,800	34,000	34,400	34,400	34,200	34,500	34,600	33,800
Ambulatory Health Care Services	10,900	11,000	11,100	11,200	11,200	11,300	11,300	11,500	11,400	11,400	11,600	11,600	11,300
Hospitals	11,300	11,300	11,300	11,300	11,400	11,600	11,600	11,700	11,800	11,800	12,000	12,000	11,600
Nursing and Residential Care Facilities	7,000	7,000	7,000	7,100	7,100	7,200	7,200	7,300	7,100	7,100	7,000	7,100	7,100
Social Assistance	3,400	3,500	3,600	3,900	4,100	3,700	3,900	3,900	4,100	3,900	3,900	3,900	3,800
Leisure and Hospitality	25,600	26,100	26,600	26,600	27,300	27,800	28,400	28,100	27,100	26,800	26,700	26,700	27,000
Arts, Entertainment, and Recreation	2,600	2,600	2,800	3,000	3,400	3,600	3,600	3,300	2,800	2,900	2,800	2,600	3,000
Accommodation and Food Service	23,000	23,500	23,800	23,600	23,900	24,200	24,800	24,800	24,300	23,900	23,900	24,100	24,000
Accommodation	2,200	2,400	2,400	2,500	2,700	2,800	2,700	2,800	2,500	2,300	2,200	2,300	2,500
Food Services and Drinking Places	20,800	21,100	21,400	21,100	21,200	21,400	22,100	22,000	21,800	21,600	21,700	21,800	21,500
Full-Service Restaurants	9,200	9,300	9,500	9,400	9,400	9,400	9,100	9,100	9,000	9,000	8,900	9,000	9,200
Limited-Service Eating Places	10,700	10,900	11,000	10,800	10,900	11,000	11,700	11,600	11,600	11,600	11,700	11,700	11,300
Residual-Special Food Services	900	900	900	900	900	1,000	1,300	1,300	1,200	1,000	1,100	1,100	1,000
Other Services	11,100	11,600	11,600	12,000	12,300	12,100	12,200	12,800	12,300	12,200	12,300	12,300	12,100

\*March 2002 Benchmark figures.



**Fresno MSA**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January–December 2001\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Government	74,100	74,800	75,800	76,100	75,600	76,000	73,400	72,600	73,400	75,600	76,900	76,200	75,000
Federal Government	12,100	12,300	12,400	12,500	12,300	12,200	12,100	11,900	11,900	12,000	11,800	11,700	12,100
State and Local Government	62,000	62,500	63,400	63,600	63,300	63,800	61,300	60,700	61,500	63,600	65,100	64,500	62,900
State Government	11,300	11,000	11,400	11,600	11,800	11,700	11,000	10,900	11,200	11,800	11,900	11,800	11,500
State Government Education	3,600	3,300	3,700	3,800	3,800	3,700	2,900	2,800	3,200	3,800	4,000	4,000	3,600
Other State Government	7,700	7,700	7,700	7,800	8,000	8,000	8,100	8,100	8,000	8,000	7,900	7,800	7,900
Local Government	50,700	51,500	52,000	52,000	51,500	52,100	50,300	49,800	50,300	51,800	53,200	52,700	51,500
Local Government Education	33,000	34,000	34,300	34,300	33,500	33,700	31,900	31,400	32,200	34,000	35,100	34,700	33,500
County	9,100	9,100	9,300	9,200	9,300	9,400	9,400	9,400	9,400	9,400	9,400	9,400	9,300
City	5,600	5,400	5,400	5,400	5,500	5,600	5,600	5,600	5,400	5,200	5,400	5,300	5,500
Other Local Government	3,000	3,000	3,000	3,100	3,200	3,400	3,400	3,400	3,300	3,200	3,300	3,300	3,200

\*March 2002 Benchmark figures.



**Fresno MSA**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January–December 2002\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Total Wage and Salary	345,200	343,500	342,000	357,300	370,100	377,000	381,800	388,900	401,300	369,200	359,300	365,700	368,800
Total Farm	45,700	40,600	36,100	48,200	58,200	64,100	69,200	73,900	85,300	53,200	43,600	50,100	55,700
Total Nonfarm	299,500	302,900	305,900	309,100	311,900	312,900	312,600	315,000	316,000	316,000	315,700	315,600	311,100
Total Private	223,500	225,500	227,500	230,000	232,100	234,000	236,800	240,000	240,000	237,500	237,100	237,500	233,500
Goods Producing	45,500	45,800	46,400	47,200	47,600	48,300	49,800	52,100	52,700	50,500	48,700	48,600	48,500
Natural Resources and Mining	400	400	300	400	400	400	400	400	400	400	300	300	400
Construction	17,500	17,700	18,100	18,400	18,800	18,800	18,800	19,000	18,700	18,800	18,400	18,400	18,500
Building, Develop & Gen Cont & Hvy Const	6,000	5,900	5,900	6,100	6,200	6,200	6,100	6,100	6,000	6,000	5,800	5,800	6,000
Specialty Trade Contractors	11,500	11,800	12,200	12,300	12,600	12,600	12,700	12,900	12,700	12,800	12,600	12,600	12,400
Manufacturing	27,600	27,700	28,000	28,400	28,400	29,100	30,600	32,700	33,600	31,300	30,000	29,900	29,800
Durable Goods	12,500	12,500	12,600	12,600	12,600	12,700	12,600	12,500	12,500	12,200	12,200	12,100	12,500
Nondurable Goods	15,100	15,200	15,400	15,800	15,800	16,400	18,000	20,200	21,100	19,100	17,800	17,800	17,300
Food Manufacturing	10,400	10,400	10,600	11,000	10,900	11,300	13,000	14,900	15,200	13,200	12,100	12,100	12,100
Residual-Beverage and Tobacco Product Mfg	4,700	4,800	4,800	4,800	4,900	5,100	5,000	5,300	5,900	5,900	5,700	5,700	5,200
Service Providing	254,000	257,100	259,500	261,900	264,300	264,600	262,800	262,900	263,300	265,500	267,000	267,000	262,500
Trade, Transportation and Utilities	57,400	57,200	57,300	57,900	58,200	58,800	59,200	59,500	59,500	59,600	60,500	60,700	58,800
Wholesale Trade	12,400	12,400	12,500	12,800	12,900	13,100	13,100	13,100	13,000	12,800	12,600	12,500	12,800
Merchant Wholesalers, Durable Goods	6,000	6,000	6,000	6,200	6,200	6,300	6,200	6,200	6,100	6,000	6,000	5,900	6,100
Merchant Wholesalers, Nondurable Goods	5,500	5,500	5,600	5,600	5,700	5,800	5,900	5,900	5,900	5,700	5,600	5,500	5,700
Wholesale Electronic Markets and Agents and Brokers	900	900	900	1,000	1,000	1,000	1,000	1,000	1,000	1,100	1,000	1,100	1,000
Retail Trade	35,400	35,200	35,200	35,200	35,500	35,800	35,700	35,800	35,800	36,100	37,400	37,800	35,900
Food and Beverage Stores	7,000	7,000	7,000	7,000	7,000	7,200	7,400	7,400	7,500	7,600	7,600	7,400	7,300
Clothing and Clothing Accessories Stores	2,400	2,300	2,200	2,200	2,300	2,300	2,300	2,300	2,400	2,500	2,700	2,800	2,400
General Merchandise Stores	7,100	6,900	6,900	6,900	6,900	7,000	6,800	6,800	6,700	6,900	7,600	8,100	7,100
Residual-Miscellaneous Store Retailers	18,900	19,000	19,100	19,100	19,300	19,300	19,200	19,300	19,200	19,100	19,500	19,500	19,200
Transportation, Warehousing and Utilities	9,600	9,600	9,600	9,900	9,800	9,900	10,400	10,600	10,700	10,700	10,500	10,400	10,100
Transportation and Warehousing	8,000	8,100	8,100	8,400	8,300	8,400	8,900	9,100	9,100	9,100	8,900	8,800	8,600
Utilities	1,600	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,600	1,600	1,600	1,600	1,500
Information	5,500	5,400	5,500	5,500	5,400	5,400	5,200	5,200	5,200	5,000	5,100	5,100	5,300

\*March 2002 Benchmark figures.

**Fresno MSA**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January-December 2002\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Financial Activities	14,400	14,400	14,500	14,900	14,900	15,000	15,200	15,300	15,100	14,800	14,800	14,900	14,900
Finance and Insurance	9,700	9,700	9,700	9,900	9,900	9,900	9,900	9,900	9,800	9,800	9,800	9,800	9,800
Insurance Carriers and Related	4,100	4,100	4,000	4,000	4,000	4,000	4,100	4,000	4,100	4,000	4,000	3,900	4,000
Residual-Credit Intermediation and Related Activities	5,600	5,600	5,700	5,900	5,900	5,900	5,800	5,900	5,700	5,800	5,800	5,900	5,800
Real Estate and Rental and Leasing	4,700	4,700	4,800	5,000	5,000	5,100	5,300	5,400	5,300	5,000	5,000	5,100	5,000
Professional and Business Services	26,200	26,700	26,700	27,400	27,500	27,900	27,600	27,800	27,600	28,100	28,100	28,300	27,500
Professional, Scientific and Technical Services	8,400	8,600	8,700	8,900	8,600	8,900	8,700	8,700	8,700	8,800	8,900	8,900	8,700
Management of Companies and Enterprises	5,100	5,100	5,100	5,100	5,100	5,200	5,100	5,300	5,300	5,300	5,300	5,300	5,200
Administrative and Support and Waste Services	12,700	13,000	12,900	13,400	13,800	13,800	13,800	13,800	13,600	14,000	13,900	14,100	13,600
Administrative and Support Services	12,000	12,300	12,200	12,700	13,100	13,000	13,100	13,100	13,000	13,400	13,300	13,500	12,900
Employment Services	4,300	4,500	4,400	4,600	4,700	4,700	4,700	4,700	4,700	4,700	4,700	4,700	4,600
Residual-Other Support Services	7,700	7,800	7,800	8,100	8,400	8,300	8,400	8,400	8,300	8,700	8,600	8,800	8,300
Waste Management and Remediation Services	700	700	700	700	700	800	700	700	600	600	600	600	700
Educational and Health Services	37,000	37,700	38,200	38,500	38,600	38,400	38,900	39,100	39,300	39,300	39,700	39,700	38,700
Educational Services	3,100	3,400	3,500	3,300	3,200	3,000	3,000	3,100	3,100	3,300	3,400	3,300	3,200
Health Care and Social Assistance	33,900	34,300	34,700	35,200	35,400	35,400	35,900	36,000	36,200	36,000	36,300	36,400	35,500
Ambulatory Health Care Services	11,300	11,400	11,500	11,800	11,800	11,800	12,000	12,100	12,100	12,100	12,300	12,300	11,900
Hospitals	12,000	12,100	12,100	12,400	12,400	12,200	12,700	12,700	12,700	12,700	12,900	12,900	12,500
Nursing and Residential Care Facilities	7,000	7,000	7,000	7,000	7,000	7,100	7,000	6,900	7,000	7,000	6,900	7,000	7,000
Social Assistance	3,600	3,800	4,100	4,000	4,200	4,300	4,200	4,300	4,400	4,200	4,200	4,200	4,100
Leisure and Hospitality	25,900	26,100	26,500	26,200	27,300	27,900	28,400	28,100	27,700	27,400	27,300	27,300	27,200
Arts, Entertainment, and Recreation	2,600	2,600	2,700	3,100	3,500	3,800	4,100	3,800	3,400	3,500	3,400	3,200	3,300
Accommodation and Food Service	23,300	23,500	23,800	23,100	23,800	24,100	24,300	24,300	24,300	23,900	23,900	24,100	23,900
Accommodation	2,500	2,500	2,600	2,200	2,500	2,800	3,000	3,000	2,800	2,600	2,500	2,600	2,600
Food Services and Drinking Places	20,800	21,000	21,200	20,900	21,300	21,300	21,300	21,300	21,500	21,300	21,400	21,500	21,200
Full-Service Restaurants	9,000	9,000	9,000	8,900	9,100	9,100	8,800	8,800	8,900	8,900	8,800	8,900	8,900
Limited-Service Eating Places	10,900	11,100	11,200	11,000	11,300	11,200	11,300	11,300	11,500	11,500	11,600	11,600	11,300
Residual-Special Food Services	900	900	1,000	1,000	900	1,000	1,200	1,200	1,100	900	1,000	1,000	1,000
Other Services	11,600	12,200	12,400	12,400	12,600	12,300	12,500	12,900	12,900	12,800	12,900	12,900	12,500

\*March 2002 Benchmark figures.

**Fresno MSA**  
**Wage and Salary Employment by Industry**  
(Data Not Seasonally Adjusted)  
Monthly January–December 2002\*

Industry Title	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Government	76,000	77,400	78,400	79,100	79,800	78,900	75,800	75,000	76,000	78,500	78,600	78,100	77,600
Federal Government	12,100	12,600	12,800	12,900	13,300	13,100	13,000	12,600	12,600	12,600	12,500	12,700	12,700
State and Local Government	63,900	64,800	65,600	66,200	66,500	65,800	62,800	62,400	63,400	65,900	66,100	65,400	64,900
State Government	11,700	11,400	11,800	11,900	12,000	12,000	11,200	10,900	11,000	11,700	11,700	11,700	11,600
State Government Education	3,900	3,600	4,000	4,000	4,000	4,000	3,200	3,000	3,100	3,800	3,900	3,900	3,700
Other State Government	7,800	7,800	7,800	7,900	8,000	8,000	8,000	7,900	7,900	7,900	7,800	7,800	7,900
Local Government	52,200	53,400	53,800	54,300	54,500	53,800	51,600	51,500	52,400	54,200	54,400	53,700	53,300
Local Government Education	34,000	35,100	35,300	35,600	35,800	35,000	32,600	32,500	33,500	34,500	35,600	35,000	34,500
County	9,500	9,500	9,600	9,600	9,600	9,700	9,700	9,700	9,700	10,500	9,600	9,600	9,700
City	5,300	5,300	5,400	5,600	5,600	5,600	5,700	5,700	5,500	5,500	5,500	5,500	5,600
Other Local Government	3,400	3,500	3,500	3,500	3,500	3,500	3,600	3,600	3,700	3,700	3,700	3,600	3,600

\*March 2002 Benchmark figures.



# *Projections & Planning Information*

## **Module D:**

# **Projections**





# **Projections and Planning Information**

## **2002 UPDATES FOR MADERA COUNTY**

Replace Module D: PROJECTIONS

**EMPLOYMENT DEVELOPMENT DEPARTMENT  
LABOR MARKET INFORMATION DIVISION**

For questions about this report, call (916) 262-2162.



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## Introduction

### to Industry and Occupational Projections

#### Using Projections Data

The projections contained in these tables provide information for estimating job opportunities, developing training programs, and gaining an insight into future employment trends. However, before reaching any final conclusions, the user should consider the following:

***Remember that these data are estimates.***

These data were developed based on the assumption that historical trends will continue into the future. However, events may occur during the seven-year projection period that are impossible to predict. Events such as military base closures, major business closures or openings and natural disasters can all have a major impact on employment levels.

***Do not use these projections as your sole source of information.*** Use other, more recent sources of local economic data to corroborate the projection data. This information may be found in other documents such as those published by the Employment Development Department's Labor Market Information Division, local chambers of commerce, or local economic development agencies.

***Projections employment data are annual averages.*** These averages may not accurately portray seasonal occupations or industries such as those found in agriculture, retail sales, recreation, and construction.

***Employment levels stated reflect workers who are covered by the Unemployment Insurance program.*** As a result, industries that are made up largely of individuals who are self-employed will be understated. Examples include industries such as real

estate, hair salons, and bookkeeping. Occupations such as dental hygienists and consultants will also show an understated level of employment.

#### Industry Projections

Projections by industry forecast the anticipated changes within an industry over time. Forecasts for each county are based on the county's past employment trends and are refined by a review of current economic developments within the local community. The effect of state-level economic trends are also considered.

Industry employment projections utilize industry employment data from both the Current Employment Statistics (CES) program and the Employment Payroll (ES202) program. There is a certain amount of error built into both systems. These errors may include employers classified in the wrong industry, incorrect employment levels reported by the employer and employment reported in the wrong county.

If an industry shows a decrease in future employment, it may be that only one or two industry components are experiencing the decline and other components are still expected to hire new workers. It is best to investigate all sectors of the industry. For example, retail trade has several components: building materials and garden supplies; general merchandise stores; food stores, automotive dealers and service stations; and apparel and accessory stores, to name a few.

Geographical differences account for differing employment opportunities. If an individual is considering relocating from one area of the state to another, the size of the

industry and its expected growth level need to be kept in mind. Small rural counties will not have the same employment possibilities as do the larger metropolitan areas.

### **Knowing Future Industry Trends:**

- helps economic development professionals foster compatible growth and promote the county's strengths,
- helps local government agencies, non-profit agencies, researchers and other interested parties formulate plans and proposals,
- helps people looking for work and those doing counseling and/or job placement to learn about employment opportunities in various industries.

### **Occupational Projections**

Projections by occupation estimate the changes in occupational employment over time resulting from two principal causes—growth and technology. Changes in the number, size and type of employers within a given geographical area will affect the demand for certain occupations. Also, technological advances or changes in laws or regulations may affect the occupational mix.

County occupational projections are prepared for all but the smaller counties which are grouped together to produce projections at the multi-county level.

General changes in the work place affect some occupations. Jobs may be created, eliminated or consolidated because of restructuring or regulations affecting the requirements for the job. For example, personal computers and word processing programs eliminated many typist jobs, but created a need for word processors.

An occupational title does not give details about the occupation. An individual starting a career search may want to look at the various

occupations in this module, choose any that are of interest, and then do further research on the occupation or occupations of choice.

There are other sources of information about specific occupations and the details, such as skills and educational requirements, hourly earnings, benefits, working conditions and advancement opportunities.

Industry staffing patterns used for the projections process are developed from the annual OES Survey of employers. The survey utilizes a sample of the entire universe of Unemployment Insurance (UI) covered employers. Because it is a survey, the following points should be considered:

- There is inherent statistical error as a result of both the sampling process and the level of employer response to the survey mailings.
- The OES staffing patterns may contain errors because of the problems employers may have in completing the survey. These errors typically include misunderstanding of survey instructions, misinterpretation of occupational definitions and/or titles contained on the forms, and clerical errors in filling out the forms.
- The employer's response to the survey may reflect conditions that are atypical. The employer may be experiencing a temporary shutdown, seasonal high or low employment, or a temporary increase in demand for his/her product or service.

Occupational projections data indicate the major local occupations and which occupations are likely to offer the greatest number of job opportunities. When possible, the user should focus on larger groups rather than specific occupations. Some occupations may not appear in published tables because of the very small number of people employed in that



area or because of confidentiality concerns.

Although an occupation may be stable and is not expected to grow, it does not mean that there are no opportunities for employment. All occupations have turnover opportunities—individuals change or leave their jobs permanently for varying reasons. High turnover, especially in occupations that require lower-skill levels, would mean that there are frequent openings even though there is little or no growth.

The occupational projections data are prepared for employment and training planners, vocational educators, and others who need information on future employment by occupation. The outlook information can be used in making occupational training decisions and career choices. Employers considering expansion or relocation may find the data helpful in understanding the occupational composition and trends in a county or geographic region.

### **Additional Sources of Information**

For additional information on economic conditions in a particular county, you may contact the Labor Market Information Division's area consultants who are located in the community and are knowledgeable about the economic activities within the counties that they serve, and the local One Stop locations where additional publications on labor market information may be obtained. Other sources of information include:

- Wage and Salary Employment by Industry
- Bureau of Labor Statistics, Occupational Outlook Handbook
- California Occupational Guides
- Bureau of Labor Statistics, Dictionary of Occupational Titles (DOT)
- California Association for Local Economic Development (CALED)
- Local Chambers of Commerce
- Economic Development Organizations

- Local Newspapers
- Standard Industrial Classification Manual

### **Automated Access**

Electronic access to current data is available through the Employment Development Department's Internet address at:

**<http://www.calmis.ca.gov>**

For technical assistance or additional information about the Employment Development Department's Internet website, please call (916) 262-2162 and select option #2. Customers may also call (916) 262-2162 or FAX (916) 262-2443 to order publications.

# Description of Industry and Occupational Tables

Employment includes nonagricultural wage and salary workers except for self-employed persons, unpaid family workers, private household workers, and those involved in labor-management trade disputes. For the Federal government sector, employment includes all civilian employees regardless of the activities in which they are engaged.

## Industry

An **industry division** refers to a distinct group of private, public, or nonprofit enterprises engaged in producing goods or providing services. With the exception of government, industries are classified by the Standard Industrial Classification (SIC) system. Industries are grouped into ten major categories, according to the economic activity involved. The ten major categories or industry divisions are:

*Agriculture, Forestry, and Fishing (SIC 01–09)* includes establishments primarily engaged in agricultural production, forestry, commercial fishing, hunting and trapping, and related services.

*Mining (SIC 10–14)* includes all establishments involved in the extraction of minerals, crude petroleum, and natural gas. It includes quarrying, well operations, milling, and other related activities.

*Construction (SIC 15–17)* includes establishments engaged in contract construction. This includes new work, additions, alterations, and repairs performed by general and special trade contractors.

*Manufacturing (SIC 20–39)* includes establishments which are usually described as plants, factories, or mills that are engaged in

producing or processing non-durable or durable goods. These characteristically use power-driven machines and material-handling equipment.

*Transportation and Public Utilities (SIC 40–49)* includes enterprises engaged in passenger and freight transportation by surface, water, and air and warehousing and other transportation services. It also includes the communications complex of telephone, telegraph, radio, and television; and the utilities providing gas, electric, and sanitary services.

*Wholesale Trade (SIC 50–51)* includes establishments involved in the selling of merchandise to retailers; to industrial, commercial, farm, construction contractors, or professional business users; or to other wholesalers.

*Retail Trade (SIC 52–59)* includes establishments involved in the selling of merchandise for personal or household consumption and rendering services incidental to the sale of goods.

*Finance, Insurance, and Real Estate (SIC 60–67)* includes savings and loan institutions, banks, and security and commodity brokerages, insurance agencies and carriers, real estate sales and management offices, and rental and planning agencies.

*Services (SIC 70–89)* includes establishments such as hotels, laundries, auto repair shops, theaters, legal services, advertising services, private schools and hospitals, and nonprofit organizations which are engaged in rendering a variety of services to individuals and businesses.



*Government* includes the legislative, judicial, administrative, and regulatory activities of federal, state, local and international governments. It also includes federal, state, and local government hospitals and education.

#### **Table 1: Employment By Major Industry**

This table shows 1999 estimated employment and 2006 projected employment along with the percentage of total employment for each major industry division.

#### **Table 2: Employment by Industry**

This table shows employment and projected employment by industry. The number of jobs is estimated for 1999 and projected for 2006. The column entitled "SIC" lists the Standard Industrial Classification code for each industry grouping. The column labeled "Absolute Change" provides the projected change in employment between 1999 and 2006. The "Percent Change" column is the growth rate over the seven-year period.

### **Occupational**

**Occupational groups** are groups of occupations with similar skills and/or educational requirements, based on the OES groupings. There are over 800 detailed occupations and close to 100 summary level occupations in the Occupational Employment Statistics (OES) classification system. The seven occupational groups are listed below.

*Managers and Administrative* occupations are top and mid-level managers, administrators, and executives. Primary duties are policy making, planning, staffing, directing or controlling the activities of a firm. First-line supervisors are excluded from this category.

*Professional, Paraprofessional, and Technical* occupations are concerned with theoretical or practical aspects of such fields as science, art, education, health, law, and business relations. Professional occupations generally

require long and intensive preparation, while technical occupations work closely with professional personnel and are required to have a combination of basic scientific knowledge and specialized education.

*Sales And Related* occupations are concerned with influencing customers to buy commodities, services, real estate, and investments.

*Clerical And Administrative Support* occupations prepare, transcribe, systematize, and preserve written communications and records; distribute information; and collect accounts.

*Service Occupations* prepare and serve food and drink; provide lodging and related services; provide grooming, cosmetic, and other personal and health care services; maintain and clean clothing and other wearing apparel; provide protection for people and property; attend to the comfort or requests of patrons of amusement and recreation facilities; and perform cleaning and maintenance services in the interiors of buildings.

*Agricultural, Forestry, And Fishing* occupations in this report include only forestry workers, nursery workers, animal caretakers, and gardeners and groundskeepers.

*Production, Construction, Operating, Maintenance, and Material Handling* are skilled, semiskilled, and unskilled workers performing machine and manual tasks involving production, construction, operating maintenance, repair, and material handling operations.

#### **Table 3: Employment by Major Occupational Group**

This table shows 1999 and 2006 employment and projected employment for the seven major occupational groups. The "Percent of Total" column displays the percentage of total employment each major occupational group represents. The "Absolute Change" column

gives the number of job opportunities resulting from the creation of new jobs. "Percent Change" shows the percentage change for each occupational group.

**Table 4: Occupations with the Greatest Absolute Job Growth**

This table lists the 50 occupations that are projected to register the largest absolute change between 1999 and 2006. In general, these occupations are numerically large. Some have average projected rates of growth, but because of their employment size will add significant numbers of new jobs over the 1999–2006 period.

**Table 5: Occupations with the Fastest Job Growth**

This table lists the 50 occupations with the greatest projected percentage increases. It provides a different perspective to future occupational employment changes. It is important to note that some of these occupations are increasing rapidly from relatively small employment levels and are not necessarily found in Table 4.

**Table 6: Occupational Employment Projections**

This table provides occupational detail for up to 800 occupations. Annual average employment in each occupation is shown for 1999 and 2006. The column headed "Absolute Change" presents the number of job opportunities resulting from the creation of new jobs. The "Percent Change" column shows the percentage change for each occupation. The next column, "Openings Due to Separations", shows job opportunities that are created by workers leaving the occupation. Also included in this table is the Occupational Employment Statistics (OES) codes column. It shows the distinctive California OES code for each occupational title.

Each occupation in Table 6 is identified by a line number. The Alphabetical Index of Occupations section found in this module may be used to locate individual occupations in the detailed table. The same line numbers are used in all area reports for 1999–2006. Line numbers may be different for other time periods. Not all line numbers appear in all counties; missing line numbers indicate occupations with no employment or employment below the area's cutoff point for publishing.

**Table 7: Occupations with the Most Openings (Growth plus Separations)**

This table lists the occupations that are projected to register the largest absolute growth and separations between 1999 and 2006. In general, these occupations are numerically large. Some have average projected rates of growth, but because of their employment size will add significant numbers of new job openings over the 1999–2006 period.

**Table 8: Occupations with Projected Decline**

This table lists the occupations that are projected to decline over the 1999–2006 time period. Declining employment is a sign that the occupation has no growth. However, turnover may result in some job opportunities.



# Training Level Definitions

Occupational training and education classifications were developed by the Bureau of Labor Statistics to improve on prior classification systems that did not distinguish between occupations with comparable educational requirements. For example, neither carpenters nor laborers require formal education beyond high school, but the complexity of the work and the training time required results in carpenters being placed in the long-term on-the-job training category and laborers placed in the short-term on-the-job training category. Of course, there is more than one way to qualify for a job. In this classification system, the education and training required reflects the manner in which most workers become proficient in that occupation and the preferences of most employers.

1. **First professional degree.** Occupations that require at least two years of full-time academic study beyond a bachelor's degree (for example, law, medicine, dentistry and clergy).
2. **Doctoral degree.** Occupations that require at least three years of full-time academic study beyond a bachelor's degree culminating in a doctoral degree.
3. **Master's degree.** Occupations that require the completion of a master's degree program, which is usually one to two years beyond a bachelor's degree.
4. **Bachelor's or higher and some work experience.** Occupations that generally require work experience in an occupation requiring a bachelor's or higher degree. Most occupations in this category are managerial occupations that require work experience in a related non-managerial occupation.
5. **Bachelor's degree.** Occupations that require the completion of at least 4 but not more than 5 years of full-time academic study beyond high school resulting in a Bachelor's degree.
6. **Associate degree.** Occupations that require the completion of at least 2 years of full-time academic study beyond high school.
7. **Post-secondary vocational education.** Occupations that require completion of vocational school training.
8. **Work experience.** Occupations that require skills obtained through work experience in a related occupation.
9. **Long-term on-the-job training.** Occupations that require more than 12 months of on-the-job training or combined work experience and formal classroom instruction for workers to develop the skills needed for average job performance.
10. **Moderate-term on-the-job training.** Occupations in which workers can develop average job performance after 1 to 12 months of combined on-the-job experience and informal training.
11. **Short-term on-the-job training.** Occupations in which workers can develop skills needed after a short demonstration or up to one month of on-the-job experience and instruction.

# Industry Trends and Outlook

Total nonagricultural wage and salary employment levels in Madera County are projected to increase from 26,700 to 30,200 jobs, a 13.1 percent increase during the projection period from 1999 to 2006. This is an absolute change of 3,500 jobs. The service-producing sector will grow by an estimated 3,100 jobs, and the goods-producing sector will gain an estimated 400 new jobs.

The largest industry division, **services**, will increase by 1,400 jobs (from 7,300 to 8,700 jobs, up 19.2 percent). Although business services will be relatively unchanged during the forecast period, health services is expected to grow by 800 jobs, from 3,600 to 4,400 jobs. The Central Valley Children's Hospital (formerly Valley Children's Hospital) continues to expand, and other medical offices are being built around the hospital. Other services (i.e., hotels and motels, amusement and recreation, legal services, family services, residential care, and religious organizations) expect to increase by 500 jobs.

**Government** payrolls should grow by 9.6 percent (up 700 jobs), with most of the growth (400 jobs) attributed to local education. Federal government employment is expected to grow by 66.7 percent. A large casino is being built in the foothills of eastern Madera County and an estimated 1,600 employees will be hired during the forecast period. Employment for the casino is categorized as federal employment.

The third largest industry division is **trade**, which will add 700 jobs (from 5,600 to 6,300 jobs), a 12.5 percent growth. All of the growth

is anticipated to occur in retail trade (up 700 jobs), with wholesale trade maintaining stable at 900 jobs.

All industries within retail trade will add jobs: general merchandise (up 100 jobs), food stores (up 100 jobs), eating and drinking places (up 200 jobs), and other retail trade (up 200 jobs). The other retail trade category includes industries such as new and used car dealers, gasoline service stations, furniture stores, drug stores, and lumber and other building materials.

**Manufacturing** will add 300 jobs, from 3,500 to 3,800 jobs. Nondurable goods will add the most (up by 200 jobs, all within other nondurable goods segment), and durable goods will advance by 100 jobs.

There will be a slight increase (up by 100 jobs) in the **construction and mining** industry division, from 1,400 to 1,500 jobs. Because of the small number of jobs attributed to mining, these two industries are combined for purposes of reporting.

The **transportation and public utilities** industry division will also advance by an estimated 100 jobs (from 1,100 to 1,200 jobs). All of the growth will occur in the electric, gas and sanitary services industry. No growth is expected in trucking and warehousing for this forecast period.

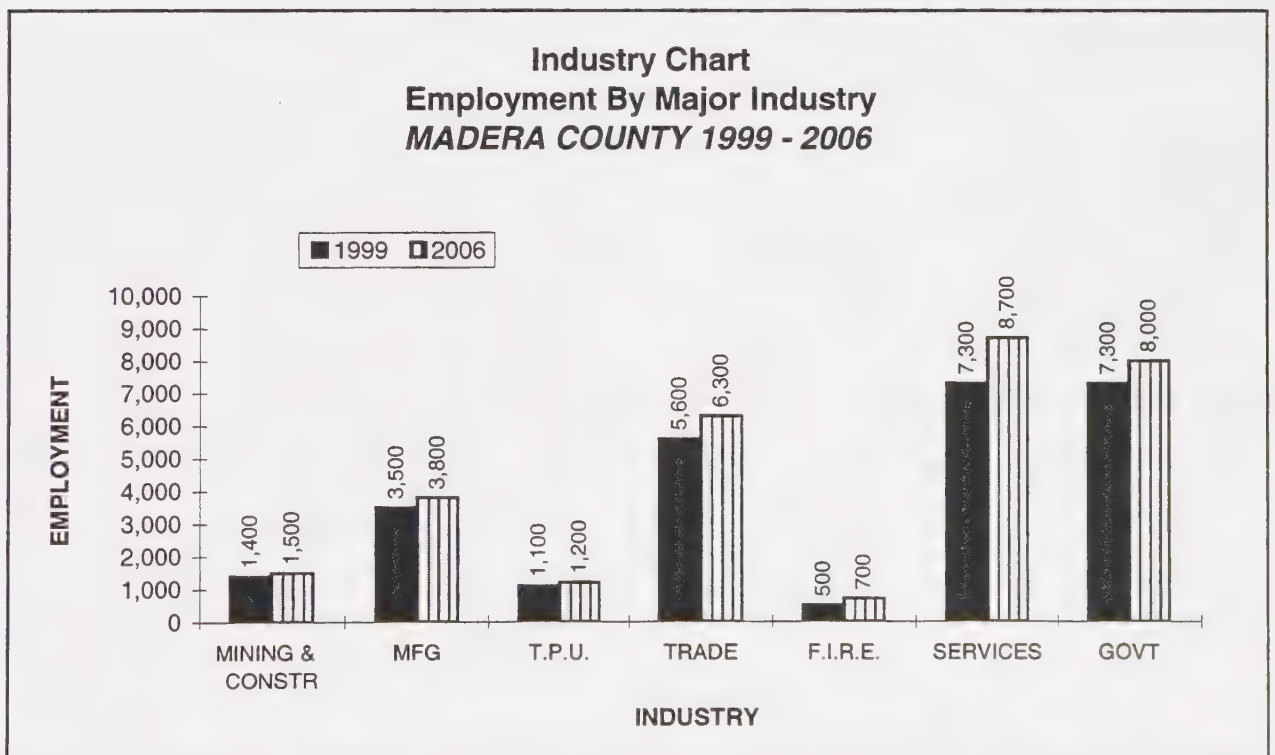
**Finance, insurance and real estate** will add 200 jobs (from 500 to 700 jobs). All of the growth is expected in the finance segment, with other finance, insurance, and real estate remaining unchanged.



**Table 1**  
**Employment By Major Industry (1)**  
**1999 - 2006 Annual Averages**  
**MADERA COUNTY**

INDUSTRY	1999 (2)	PERCENT OF TOTAL	2006	PERCENT OF TOTAL
<b>TOTAL NONFARM</b>	<b>26,700</b>	<b>100.0%</b>	<b>30,200</b>	<b>100.0%</b>
MINING & CONSTRUCTION	1,400	5.2%	1,500	5.0%
MANUFACTURING	3,500	13.1%	3,800	12.6%
TRANSPORTATION & PUBLIC UTILITIES	1,100	4.1%	1,200	4.0%
TRADE	5,600	21.0%	6,300	20.9%
FINANCE, INSURANCE, & REAL ESTATE	500	1.9%	700	2.3%
SERVICES	7,300	27.3%	8,700	28.8%
GOVERNMENT	7,300	27.3%	8,000	26.5%

- (1) Employment and projections contained in these tables are considered estimates (see introduction for a full explanation of data limitations). Employment is reported by place of work and excludes self-employed persons, unpaid family workers, domestics, volunteers, and those involved in labor-management trade disputes. These data are based on 1987 Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Government data include all civilian government employees regardless of the activities in which they are engaged.
- (2) March 2000 benchmark.



**Table 2**  
**Industry Employment Projections (1)**  
**1999 - 2006**  
**MADERA COUNTY**

INDUSTRY	SIC	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE
		1999 (2)	2006		
<b>TOTAL NONFARM</b>	<b>074, 075, 078, 10-99 except 88</b>	<b>26,700</b>	<b>30,200</b>	<b>3,500</b>	<b>13.1</b>
<b>GOODS PRODUCING</b>	<b>10-39</b>	<b>4,900</b>	<b>5,300</b>	<b>400</b>	<b>8.2</b>
<b>CONSTRUCTION AND MINING</b>	<b>10-17</b>	<b>1,400</b>	<b>1,500</b>	<b>100</b>	<b>7.1</b>
<b>MANUFACTURING</b>	<b>20-39</b>	<b>3,500</b>	<b>3,800</b>	<b>300</b>	<b>8.6</b>
Durable Goods	24,25,32-39	1,600	1,700	100	6.3
Stone, Clay & Glass	32	700	700	0	0.0
Primary & Fabricated Metal	33,34	100	100	0	0.0
Industrial Machinery	35	700	700	0	0.0
Other Durable Goods		200	200	0	0.0
Nondurable Goods	20-23,26-31	1,900	2,100	200	10.5
Food & Kindred Products	20	1,100	1,100	0	0.0
Other Durable Goods		800	1,000	200	25.0
<b>SERVICE PRODUCING</b>	<b>074, 075, 078, 40-99 except 88</b>	<b>21,800</b>	<b>24,900</b>	<b>3,100</b>	<b>14.2</b>
<b>TRANSPORTATION &amp; PUBLIC UTILITIES</b>	<b>40-42,44-49</b>	<b>1,100</b>	<b>1,200</b>	<b>100</b>	<b>9.1</b>
Transportation	40-42,44-47	600	600	0	0.0
Trucking & Warehousing	42	500	500	0	0.0
Other Transportation		100	100	0	0.0
Comm. & Public Utilities	48,49	500	600	100	20.0
Communications	48	400	400	0	0.0
Electric, Gas & Sanitary Services	49	100	200	100	100.0
<b>TRADE</b>	<b>50-59</b>	<b>5,600</b>	<b>6,300</b>	<b>700</b>	<b>12.5</b>
Wholesale Trade	50,51	900	900	0	0.0
Wholesale--Durable	50	500	500	0	0.0
Wholesale--Nondurable	51	400	400	0	0.0
Retail Trade	52-59	4,700	5,400	700	14.9
General Merchandise	53	700	800	100	14.3
Food Stores	54	900	1,000	100	11.1
Eating & Drinking Places	58	1,700	1,900	200	11.8
Other Retail Trade		1,500	1,700	200	13.3
<b>FINANCE, INSURANCE, &amp; REAL ESTATE</b>	<b>60-65,67</b>	<b>500</b>	<b>700</b>	<b>200</b>	<b>40.0</b>
Finance	60-62,67	200	400	200	100.0
Other Finance., Insurance & Real Estate		300	300	0	0.0
<b>SERVICES</b>	<b>074, 075, 078, 70-89 except 88</b>	<b>7,300</b>	<b>8,700</b>	<b>1,400</b>	<b>19.2</b>
Business Services	73	800	800	0	0.0
Health Services	80	3,600	4,400	800	22.2
Other Services		3,000	3,500	500	16.7

**Table 2**  
**Industry Employment Projections (1)**  
**1999 - 2006**  
**MADERA COUNTY**

INDUSTRY	SIC	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE
		1999 (2)	2006		
<b>GOVERNMENT</b>		<b>7,300</b>	<b>8,000</b>	<b>700</b>	<b>9.6</b>
Federal Government		300	500	200	66.7
State & Local Government		7,000	7,500	500	7.1
State Government		1,900	2,000	100	5.3
Local Government		5,000	5,500	500	10.0
Local Education		3,500	3,900	400	11.4
Local Noneducation		1,500	1,600	100	6.7

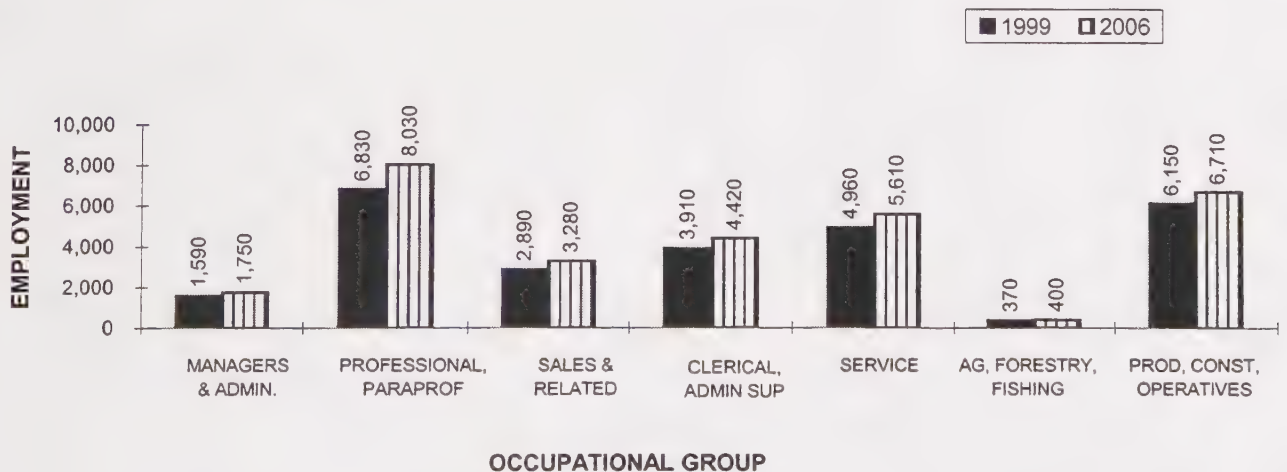
- (1) Employment and projections contained in these tables are considered estimates (see introduction for a full explanation of data limitations). Employment is reported by place of work and excludes self-employed persons, unpaid family workers, domestics, volunteers, and those involved in labor-management trade disputes. These data are based on 1987 Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Government data include all civilian government employees regardless of the activities in which they are engaged.
- (2) March 2000 benchmark.

**Table 3**  
**Employment by Major Occupational Group**  
**1999 - 2006 Annual Averages**  
**MADERA COUNTY**

OCCUPATIONAL GROUP	1999	PERCENT OF TOTAL	2006	PERCENT OF TOTAL	ABSOLUTE CHANGE	PERCENT CHANGE
TOTAL, ALL OCCUPATIONS (1)	26,700	100.0%	30,200	100.0%	3,500	13.1%
MANAGERS AND ADMIN OCCUPATIONS	1,590	6.0%	1,750	5.8%	160	10.1%
PROFESSIONAL, PARAPROF, TECHNICAL	6,830	25.6%	8,030	26.6%	1,200	17.6%
SALES AND RELATED OCCUPATIONS	2,890	10.8%	3,280	10.9%	390	13.5%
CLERICAL, ADMINISTRATIVE SUPPORT	3,910	14.6%	4,420	14.6%	510	13.0%
SERVICE OCCUPATIONS	4,960	18.6%	5,610	18.6%	650	13.1%
AGRICULTURAL, FORESTRY, FISHING	370	1.4%	400	1.3%	30	8.1%
PROD, CONST, OPER, MAT HANDLING	6,150	23.0%	6,710	22.2%	560	9.1%

(1) Total is based on the March 2000 benchmark.

**Occupational Chart**  
**Employment by Major Occupational Group**  
**MADERA COUNTY 1999 - 2006**





**Table 4**  
**Occupations With The Greatest Absolute Job Growth (1)**  
**1999 - 2006**  
**MADERA COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
		1999(2)	2006				
32502	REGISTERED NURSES	750	910	160	21.3	6	ASSOCIATE DEGREE
49023	CASHIERS	830	980	150	18.1	11	SHORT-TERM ON-THE-JOB TRAINING
49011	SALESPERSONS, RETAIL	670	790	120	17.9	11	SHORT-TERM ON-THE-JOB TRAINING
55347	GENERAL OFFICE CLERKS	580	670	90	15.5	11	SHORT-TERM ON-THE-JOB TRAINING
63017	CORRECTION OFFICERS, JAILERS	370	460	90	24.3	9	LONG-TERM ON-THE-JOB TRAINING
31521	TEACHER AIDES, PARAPROFESSIONAL	370	450	80	21.6	6	ASSOCIATE DEGREE
66008	NURSE AIDES, ORDERLIES, ATTENDANTS	380	460	80	21.1	11	SHORT-TERM ON-THE-JOB TRAINING
31308	TEACHERS--SECONDARY SCHOOL	510	580	70	13.7	5	BACHELOR'S DEGREE
53905	TEACHER AIDES & EDUC ASSTS, CLERICAL	290	360	70	24.1	11	SHORT-TERM ON-THE-JOB TRAINING
55305	RECEPTIONISTS, INFORMATION CLERKS	200	270	70	35.0	11	SHORT-TERM ON-THE-JOB TRAINING
19005	GENERAL MANAGERS, TOP EXECUTIVES	580	640	60	10.3	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
31305	TEACHERS--ELEMENTARY SCHOOL	780	840	60	7.7	5	BACHELOR'S DEGREE
41002	FIRST-LINE SUP/MGR--SALES	330	380	50	15.2	8	WORK EXPERIENCE
51002	FIRST-LINE SUP/MGR, CLERL, ADM SUP	290	340	50	17.2	8	WORK EXPERIENCE
65008	WAITERS AND WAITRESSES	350	400	50	14.3	11	SHORT-TERM ON-THE-JOB TRAINING
67002	MAIDS AND HOUSEKEEPING CLEANERS	300	350	50	16.7	11	SHORT-TERM ON-THE-JOB TRAINING
21114	ACCOUNTANTS AND AUDITORS	220	260	40	18.2	5	BACHELOR'S DEGREE
31311	TEACHERS--SPECIAL EDUCATION	180	220	40	22.2	5	BACHELOR'S DEGREE
65041	COMBINED FOOD PREP AND SERVICE	430	470	40	9.3	11	SHORT-TERM ON-THE-JOB TRAINING
66005	MEDICAL ASSISTANTS	110	150	40	36.4	10	MODERATE-TERM ON-THE-JOB TRAINING
32102	PHYSICIANS AND SURGEONS	130	160	30	23.1	1	FIRST PROFESSIONAL DEGREE
32302	RESPIRATORY THERAPISTS	60	90	30	50.0	6	ASSOCIATE DEGREE
63014	POLICE PATROL OFFICERS	150	180	30	20.0	9	LONG-TERM ON-THE-JOB TRAINING
66011	HOME HEALTH AIDES	70	100	30	42.9	11	SHORT-TERM ON-THE-JOB TRAINING
97102	TRUCK DRIVERS, HEAVY	320	350	30	9.4	11	SHORT-TERM ON-THE-JOB TRAINING



**Table 4**  
**Occupations With The Greatest Absolute Job Growth (1)**  
**1999 - 2006**  
**MADERA COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
		1999(2)	2006				
98902	HAND PACKERS AND PACKAGERS	240	270	30	12.5	11	SHORT-TERM ON-THE-JOB TRAINING
15008	MEDICINE, HEALTH SERVICES MGRS	60	80	20	33.3	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
21911	COMPL, ENFORCE INSPECT-EX CONST	110	130	20	18.2	8	WORK EXPERIENCE
22121	CIVIL ENGINEERS--INCLUDING TRAFFIC	160	180	20	12.5	5	BACHELOR'S DEGREE
25102	SYSTEMS ANALYSTS--ELEC DATA PROCESSING	30	50	20	66.7	5	BACHELOR'S DEGREE
25104	COMPUTER SUPPORT SPECIALISTS	60	80	20	33.3	5	BACHELOR'S DEGREE
27302	SOCIAL WORKERS--MED, PSYCHIATRIC	80	100	20	25.0	3	MASTER'S DEGREE
27305	SOCIAL WKRS--EX MED, PSYCHIATRIC	110	130	20	18.2	5	BACHELOR'S DEGREE
27308	HUMAN SERVICES WORKERS	60	80	20	33.3	10	MODERATE-TERM ON-THE-JOB TRAINING
27311	RECREATION WORKERS	110	130	20	18.2	5	BACHELOR'S DEGREE
28105	ADJUDICATORS, JUDICIAL REVIEWERS	50	70	20	40.0	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
31303	TEACHERS, PRESCHOOL	130	150	20	15.4	5	BACHELOR'S DEGREE
32314	SPEECH PATHOLOGISTS, AUDIOLOGISTS	40	60	20	50.0	3	MASTER'S DEGREE
32505	LICENSED PRACTICAL NURSES	130	150	20	15.4	7	POST-SECONDARY VOCATIONAL EDUCATION
32908	DENTAL HYGIENISTS	50	70	20	40.0	6	ASSOCIATE DEGREE
49021	STOCK CLERKS--SALES FLOOR	370	390	20	5.4	11	SHORT-TERM ON-THE-JOB TRAINING
53105	NEW ACCOUNTS CLERKS	10	30	20	200.0	8	WORK EXPERIENCE
53121	LOAN AND CREDIT CLERKS	10	30	20	200.0	11	SHORT-TERM ON-THE-JOB TRAINING
55332	INTERVIEW CLERKS--EX PERS, WELFARE	50	70	20	40.0	11	SHORT-TERM ON-THE-JOB TRAINING
57305	POSTAL MAIL CARRIERS	30	50	20	66.7	11	SHORT-TERM ON-THE-JOB TRAINING
65026	COOKS--RESTAURANT	170	190	20	11.8	9	LONG-TERM ON-THE-JOB TRAINING
65038	FOOD PREPARATION WORKERS	270	290	20	7.4	11	SHORT-TERM ON-THE-JOB TRAINING
66002	DENTAL ASSISTANTS	50	70	20	40.0	10	MODERATE-TERM ON-THE-JOB TRAINING
68038	CHILD CARE WORKERS	80	100	20	25.0	11	SHORT-TERM ON-THE-JOB TRAINING
79041	LABORERS, LANDSCAPING/GROUNDSKEEPING	190	210	20	10.5	11	SHORT-TERM ON-THE-JOB TRAINING
TOTAL OF THESE OCCUPATIONS		11,900	14,020	2,120	17.8		

(1) Excludes not elsewhere classified (NEC) categories.

(2) March 2000 Benchmark



**Table 5**  
**Occupations With The Fastest Job Growth (1)**  
**1999 - 2006**  
**MADERA COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
		1999(2)	2006				
32302	RESPIRATORY THERAPISTS	60	90	30	50.0	6	ASSOCIATE DEGREE
66011	HOME HEALTH AIDES	70	100	30	42.9	11	SHORT-TERM ON-THE-JOB TRAINING
66005	MEDICAL ASSISTANTS	110	150	40	36.4	10	MODERATE-TERM ON-THE-JOB TRAINING
55305	RECEPTIONISTS, INFORMATION CLERKS	200	270	70	35.0	11	SHORT-TERM ON-THE-JOB TRAINING
15008	MEDICINE, HEALTH SERVICES MGRS	60	80	20	33.3	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
25104	COMPUTER SUPPORT SPECIALISTS	60	80	20	33.3	5	BACHELOR'S DEGREE
27308	HUMAN SERVICES WORKERS	60	80	20	33.3	10	MODERATE-TERM ON-THE-JOB TRAINING
27302	SOCIAL WORKERS--MED, PSYCHIATRIC	80	100	20	25.0	3	MASTER'S DEGREE
68038	CHILD CARE WORKERS	80	100	20	25.0	11	SHORT-TERM ON-THE-JOB TRAINING
63017	CORRECTION OFFICERS, JAILERS	370	460	90	24.3	9	LONG-TERM ON-THE-JOB TRAINING
53905	TEACHER AIDES & EDUC ASSTS, CLERICAL	290	360	70	24.1	11	SHORT-TERM ON-THE-JOB TRAINING
32102	PHYSICIANS AND SURGEONS	130	160	30	23.1	1	FIRST PROFESSIONAL DEGREE
31311	TEACHERS--SPECIAL EDUCATION	180	220	40	22.2	5	BACHELOR'S DEGREE
31521	TEACHER AIDES, PARAPROFESSIONAL	370	450	80	21.6	6	ASSOCIATE DEGREE
32502	REGISTERED NURSES	750	910	160	21.3	6	ASSOCIATE DEGREE
66008	NURSE AIDES, ORDERLIES, ATTENDANTS	380	460	80	21.1	11	SHORT-TERM ON-THE-JOB TRAINING
63014	POLICE PATROL OFFICERS	150	180	30	20.0	9	LONG-TERM ON-THE-JOB TRAINING
21114	ACCOUNTANTS AND AUDITORS	220	260	40	18.2	5	BACHELOR'S DEGREE
21911	COMPL, ENFORCE INSPECT-EX CONST	110	130	20	18.2	8	WORK EXPERIENCE
27305	SOCIAL WKRS-EX MED, PSYCHIATRIC	110	130	20	18.2	5	BACHELOR'S DEGREE
27311	RECREATION WORKERS	110	130	20	18.2	5	BACHELOR'S DEGREE
49023	CASHIERS	830	980	150	18.1	11	SHORT-TERM ON-THE-JOB TRAINING
49011	SALESPERSONS, RETAIL	670	790	120	17.9	11	SHORT-TERM ON-THE-JOB TRAINING
51002	FIRST-LINE SUP/MGR, CLERL, ADM SUP	290	340	50	17.2	8	WORK EXPERIENCE
67002	MAIDS AND HOUSEKEEPING CLEANERS	300	350	50	16.7	11	SHORT-TERM ON-THE-JOB TRAINING

**Table 5**  
**Occupations With The Fastest Job Growth (1)**  
**1999 - 2006**  
**MADERA COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
		1999(2)	2006				
55347	GENERAL OFFICE CLERKS	580	670	90	15.5	11	SHORT-TERM ON-THE-JOB TRAINING
31303	TEACHERS, PRESCHOOL	130	150	20	15.4	5	BACHELOR'S DEGREE
32505	LICENSED PRACTICAL NURSES	130	150	20	15.4	7	POST-SECONDARY VOCATIONAL EDUCATION
41002	FIRST-LINE SUP/MGR--SALES	330	380	50	15.2	8	WORK EXPERIENCE
65008	WAITERS AND WAITRESSES	350	400	50	14.3	11	SHORT-TERM ON-THE-JOB TRAINING
27307	RESIDENTIAL COUNSELORS	70	80	10	14.3	5	BACHELOR'S DEGREE
32517	PHARMACISTS	70	80	10	14.3	5	BACHELOR'S DEGREE
55344	BILLING, COST, AND RATE CLERKS	70	80	10	14.3	11	SHORT-TERM ON-THE-JOB TRAINING
31308	TEACHERS--SECONDARY SCHOOL	510	580	70	13.7	5	BACHELOR'S DEGREE
<b>TOTAL OF THESE OCCUPATIONS</b>		<b>8,280</b>	<b>9,930</b>	<b>1,650</b>	<b>19.9</b>		

(1) Excludes not elsewhere classified (NEC) categories and occupations of less than 80 in 2006.

(2) March 2000 Benchmark



**Table 6**  
**Occupational Employment Projections (1)**  
**1999 - 2006**  
**MADERA COUNTY**

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999 (2)	2006					
1		TOTAL, ALL OCCUPATIONS	26,700	30,200	3,500	13.1	4,850		
2	10000	MGRS AND ADMIN OCCUPATIONS	1,590	1,750	160	10.1	210		
3	13002	FINANCIAL MANAGERS	80	90	10	12.5	10	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
4	13005	PERS, TRAINING, LABOR-REL MGRS	30	30	0	0.0	10	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
6	13011	MKTING, ADV, PUB-REL MANAGERS	60	70	10	16.7	10	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
7	13014	ADMINISTRATIVE SERVICES MANAGERS	80	90	10	12.5	10	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
8	13017	ENGINEER, MATH, AND NAT SCI MGRS	20	30	10	50.0	0	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
10	15005	EDUCATION ADMINISTRATORS	100	100	0	0.0	20	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
11	15008	MEDICINE, HEALTH SERVICES MGRS	60	80	20	33.3	10	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
13	15014	INDUSTRIAL PRODUCTION MANAGERS	90	90	0	0.0	10	5	BACHELOR'S DEGREE
14	15017	CONSTRUCTION MANAGERS	50	50	0	0.0	10	5	BACHELOR'S DEGREE
16	15023	COMM, TRANS, UTIL OPER MGRS	100	110	10	10.0	10	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
17	15026	FOOD SERVICE AND LODGING MANAGERS	80	90	10	12.5	10	8	WORK EXPERIENCE
21	19005	GENERAL MANAGERS, TOP EXECUTIVES	580	640	60	10.3	70	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
22	19999	MANAGERS AND ADMINISTRATORS, NEC	260	280	20	7.7	30	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
23	20000	PROFESSIONAL, PARAPROF, TECHNICAL	6,830	8,030	1,200	17.6	1,030		
24	21000	MANAGEMENT SUPPORT OCCUPATIONS	550	630	80	14.5	80		
25	21100	ACCOUNTANTS, AUDIT, FINANCE SPECS	250	290	40	16.0	30		
30	21114	ACCOUNTANTS AND AUDITORS	220	260	40	18.2	30	5	BACHELOR'S DEGREE

**Table 6**  
**Occupational Employment Projections (1)**  
**1999 - 2006**  
**MADERA COUNTY**

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999 (2)	2006					
32	21199	FINANCIAL SPECIALISTS, NEC	30	30	0	0.0	0	5	BACHELOR'S DEGREE
37	21500	PERS, TRAINING, LAB-REL SPECS	40	40	0	0.0	10		
41	21511	PERS, TRAINING, LAB-REL SPECS, NEC	40	40	0	0.0	10	5	BACHELOR'S DEGREE
42	21900	OTHER MANAGEMENT SUPPORT WORKERS	260	300	40	15.4	40		
43	21902	COST ESTIMATORS	30	30	0	0.0	0	8	WORK EXPERIENCE
46	21911	COMPL, ENFORCE INSPECT--EX CONST	110	130	20	18.2	20	8	WORK EXPERIENCE
50	21999	MANAGEMENT SUPPORT WORKERS, NEC	120	140	20	16.7	20	5	BACHELOR'S DEGREE
51	22000	ENGINEERS, ARCHITECTS, SURVEYORS	410	460	50	12.2	80		
52	22100	ENGINEERS	260	300	40	15.4	40		
59	22121	CIVIL ENGINEERS--INCLUDING TRAFFIC	160	180	20	12.5	20	5	BACHELOR'S DEGREE
65	22135	MECHANICAL ENGINEERS	20	30	10	50.0	0	5	BACHELOR'S DEGREE
67	22199	ENGINEERS, NEC	80	90	10	12.5	20	5	BACHELOR'S DEGREE
73	22500	ENGINEERING, RELATED TECHNICIANS	150	160	10	6.7	40		
74	22502	CIVIL ENGINEERING TECHNICIANS	40	40	0	0.0	10	6	ASSOCIATE DEGREE
75	22505	ELECT, ELECTRONIC ENGINEERING TECH	40	50	10	25.0	10	6	ASSOCIATE DEGREE
78	22514	DRAFTERS	40	40	0	0.0	10	7	POST-SECONDARY VOCATIONAL EDUCATION
81	22599	ENGINEERING, RELATED TECHS, NEC	30	30	0	0.0	10	6	ASSOCIATE DEGREE
82	24000	NAT SCIENTISTS AND RELATED WORKERS	50	50	0	0.0	10		
95	24500	PHYSICAL, LIFE SCIENCE TECHS	50	50	0	0.0	10		
96	24502	BIOLOGICAL,AGRI, FOOD TECHS	20	20	0	0.0	0	6	ASSOCIATE DEGREE



**Table 6**  
**Occupational Employment Projections (1)**  
**1999 - 2006**  
**MADERA COUNTY**

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999 (2)	2006					
100	24599	PHYSICAL, LIFE SCIENCE TECHS, NEC	30	30	0	0.0	10	6	ASSOCIATE DEGREE
101	25000	COMPUTER, MATH, OPS RESRCH, RELATE	140	170	30	21.4	10		
102	25100	COMPUTER SCIENTISTS AND RELATED	140	170	30	21.4	10		
103	25102	SYSTEMS ANALYSTS--ELEC DATA PROC	30	50	20	66.7	0	5	BACHELOR'S DEGREE
105	25104	COMPUTER SUPPORT SPECIALISTS	60	80	20	33.3	0	5	BACHELOR'S DEGREE
106	25105	COMPUTER PROGRAMMERS	50	40	-10	-20.0	10	5	BACHELOR'S DEGREE
118	27000	SOCIAL SCI, RECREATION, RELIGIOUS	470	570	100	21.3	70		
119	27100	SOCIAL SCI--INCL URBAN, REG PLNERS	40	50	10	25.0	10		
122	27108	PSYCHOLOGISTS	40	50	10	25.0	10	3	MASTER'S DEGREE
124	27300	OTH SOCIAL SCIENCE RELATED WORKERS	430	520	90	20.9	60		
125	27302	SOCIAL WORKERS--MED, PSYCHIATRIC	80	100	20	25.0	10	3	MASTER'S DEGREE
126	27305	SOCIAL WKRS--EX MED, PSYCHIATRIC	110	130	20	18.2	10	5	BACHELOR'S DEGREE
127	27307	RESIDENTIAL COUNSELORS	70	80	10	14.3	10	5	BACHELOR'S DEGREE
128	27308	HUMAN SERVICES WORKERS	60	80	20	33.3	10	10	MODERATE-TERM ON-THE-JOB TRAINING
129	27311	RECREATION WORKERS	110	130	20	18.2	20	5	BACHELOR'S DEGREE
134	28000	LAW AND RELATED OCCUPATIONS	100	-120	20	20.0	10		
135	28100	LAWYERS AND RELATED WORKERS	100	120	20	20.0	10		
137	28105	ADJUDICATORS, JUDICIAL REVIEWERS	50	70	20	40.0	10	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER

**Table 6**  
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LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999 (2)	2006					
138	28108	LAWYERS	50	50	0	0.0	0	1	FIRST PROFESSIONAL DEGREE
145	31000	TEACHERS, EDUCATORS, LIBRARIANS	2,310	2,620	310	13.4	360		
184	31300	OTHER TEACHERS AND INSTRUCTORS	1,830	2,050	220	12.0	310		
185	31303	TEACHERS, PRESCHOOL	130	150	20	15.4	20	5	BACHELOR'S DEGREE
186	31304	TEACHERS, KINDERGARTEN	50	60	10	20.0	10	5	BACHELOR'S DEGREE
187	31305	TEACHERS--ELEMENTARY SCHOOL	780	840	60	7.7	130	5	BACHELOR'S DEGREE
188	31308	TEACHERS--SECONDARY SCHOOL	510	580	70	13.7	120	5	BACHELOR'S DEGREE
189	31311	TEACHERS--SPECIAL EDUCATION	180	220	40	22.2	10	5	BACHELOR'S DEGREE
190	31314	TEACHERS--VOC ED AND TRAINING	90	100	10	11.1	10	8	WORK EXPERIENCE
192	31321	INSTRUCTORS AND COACHES--SPORTS	60	70	10	16.7	10	10	MODERATE-TERM ON-THE-JOB TRAINING
194	31399	TEACHERS AND INSTRUCTORS, NEC	30	30	0	0.0	0	3	MASTER'S DEGREE
195	31500	LIBRARIANS, ARCHIVISTS AND RELATED	480	570	90	18.8	50		
196	31502	LIBRARIANS--PROFESSIONAL	30	30	0	0.0	10	3	MASTER'S DEGREE
200	31514	VOCATIONAL & EDUCATIONAL COUNSELOR	80	90	10	12.5	10	3	MASTER'S DEGREE
202	31521	TEACHER AIDES, PARAPROFESSIONAL	370	450	80	21.6	30	6	ASSOCIATE DEGREE
203	32000	HEALTH PRACTITIONERS, TECHS, RELAT	1,920	2,380	460	24.0	290		
204	32100	HEALTH DIAGNOSING, TREATING	160	200	40	25.0	30		
205	32102	PHYSICIANS AND SURGEONS	130	160	30	23.1	20	1	FIRST PROFESSIONAL DEGREE
206	32105	DENTISTS	30	40	10	33.3	10	1	FIRST PROFESSIONAL DEGREE
212	32300	THERAPISTS	160	230	70	43.8	20		

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			1999 (2)	2006					
213	32302	RESPIRATORY THERAPISTS	60	90	30	50.0	10	6	ASSOCIATE DEGREE
215	32308	PHYSICAL THERAPISTS	30	40	10	33.3	0	5	BACHELOR'S DEGREE
217	32314	SPEECH PATHOLOGISTS, AUDIOLOGISTS	40	60	20	50.0	10	3	MASTER'S DEGREE
219	32399	THERAPISTS, NEC	30	40	10	33.3	0	5	BACHELOR'S DEGREE
220	32500	HEALTH CARE MAINTENANCE, TREATING	1,040	1,240	200	19.2	140		
221	32502	REGISTERED NURSES	750	910	160	21.3	90	6	ASSOCIATE DEGREE
222	32505	LICENSED PRACTICAL NURSES	130	150	20	15.4	20	7	POST-SECONDARY VOCATIONAL EDUCATION
223	32508	EMERGENCY MEDICAL TECHNICIANS	30	30	0	0.0	10	7	POST-SECONDARY VOCATIONAL EDUCATION
226	32517	PHARMACISTS	70	80	10	14.3	10	5	BACHELOR'S DEGREE
227	32518	PHARMACY TECHNICIANS	30	40	10	33.3	10	10	MODERATE-TERM ON-THE-JOB TRAINING
228	32521	DIETITIANS AND NUTRITIONISTS	30	30	0	0.0	0	5	BACHELOR'S DEGREE
230	32900	OTHER HEALTH PROFS, PARAPROFS	560	710	150	26.8	100		
231	32902	MED, CLINICAL LAB TECHNOLOGISTS	60	70	10	16.7	10	5	BACHELOR'S DEGREE
232	32905	MED, CLINICAL LAB ASSISTANTS	40	40	0	0.0	0	6	ASSOCIATE DEGREE
233	32908	DENTAL HYGIENISTS	50	70	20	40.0	10	6	ASSOCIATE DEGREE
234	32911	MEDICAL RECORDS TECHNICIANS	40	50	10	25.0	10	6	ASSOCIATE DEGREE
237	32919	RADIOLOGIC TECHNOLOGISTS	60	70	10	16.7	10	6	ASSOCIATE DEGREE
241	32928	SURGICAL TECHNICIANS	20	30	10	50.0	0	7	POST-SECONDARY VOCATIONAL EDUCATION
244	32999	HEALTH CARE PROFS, PARAPROFS, NEC	290	380	90	31.0	60	6	ASSOCIATE DEGREE
245	34000	WRITERS, ARTISTS, ENTER, ATHLETES	60	60	0	0.0	0		
257	34035	ARTISTS AND RELATED WORKERS	30	30	0	0.0	0	4	WORK EXP., PLUS A BACHELOR'S OR HIGHER
258	34038	DESIGNERS, EX INTERIOR DESIGNERS	30	30	0	0.0	0	5	BACHELOR'S DEGREE



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			1999 (2)	2006					
266	39000	MISC PROFS, PARAPROFS, TECHNICAL	820	970	150	18.3	120		
272	39999	OTHER PROF, PARAPROF, TECHNICAL	820	970	150	18.3	120	5	BACHELOR'S DEGREE
273	40000	SALES AND RELATED OCCUPATIONS	2,890	3,280	390	13.5	680		
274	41000	FIRST-LINE SUP/MGR--SALES	330	380	50	15.2	30		
275	41002	FIRST-LINE SUP/MGR--SALES	330	380	50	15.2	30	8	WORK EXPERIENCE
276	43000	SALES AGENTS--SERVICE	60	70	10	16.7	10		
282	43017	SALES AGENTS--SEL BUS SERVICES	60	70	10	16.7	10	10	MODERATE-TERM ON-THE-JOB TRAINING
286	49000	MERCH, PRODUCTS AND OTHER SALES	2,500	2,830	330	13.2	640		
288	49005	SALES REPS, SCIENTIFIC--EX RETAIL	100	90	-10	-10.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
289	49008	SALES REPS, NON-SCIENTIFIC EX RET	190	200	10	5.3	30	10	MODERATE-TERM ON-THE-JOB TRAINING
290	49011	SALESPERSONS, RETAIL	670	790	120	17.9	180	11	SHORT-TERM ON-THE-JOB TRAINING
291	49014	SALESPERSONS--PARTS	80	80	0	0.0	20	10	MODERATE-TERM ON-THE-JOB TRAINING
292	49017	COUNTER AND RENTAL CLERKS	60	70	10	16.7	20	11	SHORT-TERM ON-THE-JOB TRAINING
293	49021	STOCK CLERKS--SALES FLOOR	370	390	20	5.4	40	11	SHORT-TERM ON-THE-JOB TRAINING
294	49023	CASHIERS	830	980	150	18.1	290	11	SHORT-TERM ON-THE-JOB TRAINING
298	49999	SALES AND RELATED WORKERS, NEC	200	230	30	15.0	40	10	MODERATE-TERM ON-THE-JOB TRAINING



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			1999 (2)	2006					
299	50000	CLERICAL, ADMINISTRATIVE SUPPORT	3,910	4,420	510	13.0	600		
300	51000	FIRST-LINE SUP/MGR, CLERL, ADM SUP	290	340	50	17.2	50		
301	51002	FIRST-LINE SUP/MGR, CLERL, ADM SUP	290	340	50	17.2	50	8	WORK EXPERIENCE
302	53000	INDUSTRY SPECIFIC CLERICAL, ADMIN	520	610	90	17.3	80		
303	53100	BANKING, SECURITY, FINANCE, CREDIT	110	110	0	0.0	20		
304	53102	TELLERS	70	70	0	0.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
311	53123	ADJUSTMENT CLERKS	40	40	0	0.0	0	11	SHORT-TERM ON-THE-JOB TRAINING
320	53500	INVESTIGATIVE, RELATED, EX INSUR	40	50	10	25.0	10		
323	53508	BILL AND ACCOUNT COLLECTORS	40	50	10	25.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
328	53800	LODGING AND TRAVEL WORKERS	80	90	10	12.5	20		
331	53808	HOTEL DESK CLERKS	80	90	10	12.5	20	11	SHORT-TERM ON-THE-JOB TRAINING
332	53900	MISC INDUSTRY SPECIFIC CLERICAL	290	360	70	24.1	30		
334	53905	TEACHER AIDES & EDUC ASSTS, CLERIC	290	360	70	24.1	30	11	SHORT-TERM ON-THE-JOB TRAINING
338	55000	SECRETARIAL, GENERAL OFFICE OCCS	2,150	2,340	190	8.8	310		
339	55100	SECRETARIES	540	560	20	3.7	60		

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			1999 (2)	2006					
340	55102	SECRETARIES, LEGAL	20	30	10	50.0	0	7	POST-SECONDARY VOCATIONAL EDUCATION
341	55105	SECRETARIES, MEDICAL	40	40	0	0.0	10	7	POST-SECONDARY VOCATIONAL EDUCATION
342	55108	SECRETARIES, GENERAL	480	490	10	2.1	50	7	POST-SECONDARY VOCATIONAL EDUCATION
343	55300	MISC SECRETARIAL, GENL OFF OCCS	1,610	1,780	170	10.6	250		
344	55302	STENOGRAPHERS AND/OR COURT REPORTE	30	30	0	0.0	0	7	POST-SECONDARY VOCATIONAL EDUCATION
345	55305	RECEPTIONISTS, INFORMATION CLERKS	200	270	70	35.0	30	11	SHORT-TERM ON-THE-JOB TRAINING
346	55307	TYPISTS, INCLUDING WORD PROCESSING	180	150	-30	-16.7	20	10	MODERATE-TERM ON-THE-JOB TRAINING
347	55314	PERS CLERKS--EX PAYROLL	20	20	0	0.0	0	11	SHORT-TERM ON-THE-JOB TRAINING
349	55321	FILE CLERKS	50	60	10	20.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
350	55323	ORDER CLERKS--MATERIALS, SERVICE	50	50	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
352	55328	STATISTICAL CLERKS	30	20	-10	-33.3	0	10	MODERATE-TERM ON-THE-JOB TRAINING
353	55332	INTERVIEW CLERKS--EX PERS, WELFARE	50	70	20	40.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
355	55338	BOOKKEEPING, ACCOUNTING CLERKS	320	330	10	3.1	40	10	MODERATE-TERM ON-THE-JOB TRAINING
356	55341	PAYROLL AND TIMEKEEPING CLERKS	30	30	0	0.0	0	11	SHORT-TERM ON-THE-JOB TRAINING
357	55344	BILLING, COST, AND RATE CLERKS	70	80	10	14.3	10	11	SHORT-TERM ON-THE-JOB TRAINING
358	55347	GENERAL OFFICE CLERKS	580	670	90	15.5	120	11	SHORT-TERM ON-THE-JOB TRAINING
359	56000	EDP AND OFFICE MACHINE OCCUPATIONS	70	100	30	42.9	10		
363	56011	COMPUTER OPS--EX PERIPHERAL EQUIP	20	20	0	0.0	0	10	MODERATE-TERM ON-THE-JOB TRAINING
365	56017	DATA ENTRY KEYERS--EX COMPOSING	20	30	10	50.0	0	7	POST-SECONDARY VOCATIONAL EDUCATION
367	56099	OFFICE MACHINE OPERATORS, NEC	30	50	20	66.7	10	11	SHORT-TERM ON-THE-JOB TRAINING
368	57000	COMMUNICATIONS, MAIL DISTRIBUTION	60	80	20	33.3	20		
369	57100	COMMUNICATION EQUIPMENT OPERATORS	30	30	0	0.0	10		

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			1999 (2)	2006					
370	57102	SWITCHBOARD OPERATORS	30	30	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
375	57300	MAIL, MESSAGE DISTRIBUTION WORKERS	30	50	20	66.7	10		
377	57305	POSTAL MAIL CARRIERS	30	50	20	66.7	10	11	SHORT-TERM ON-THE-JOB TRAINING
380	58000	MATERIAL RECORDING, DISPATCHING	390	410	20	5.1	60		
381	58002	DISPATCH--POLICE, FIRE, AMBULANCE	40	40	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
382	58005	DISPATCH--EX POLICE, FIRE, AMBUL	30	30	0	0.0	0	10	MODERATE-TERM ON-THE-JOB TRAINING
383	58008	PROD, PLANNING, EXPEDITING CLERKS	30	30	0	0.0	0	11	SHORT-TERM ON-THE-JOB TRAINING
388	58023	STOCK CLERKS--STOCKROOM, WAREHOUSE	140	150	10	7.1	20	11	SHORT-TERM ON-THE-JOB TRAINING
389	58026	ORDER FILLERS--WHLE & RET SALES	30	30	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
390	58028	TRAFFIC, SHIPPING, RECEIVING CLKS	120	130	10	8.3	20	11	SHORT-TERM ON-THE-JOB TRAINING
392	59000	CLERICAL, ADMIN SUPPORT, NEC	430	540	110	25.6	70	11	SHORT-TERM ON-THE-JOB TRAINING
394	60000	<b>SERVICE OCCUPATIONS</b>	<b>4,960</b>	<b>5,610</b>	<b>650</b>	<b>13.1</b>	<b>1,200</b>		
395	61000	FIRST-LINE SUP/MGR--SERVICE	290	330	40	13.8	50		
396	61002	FIRE FIGHTING & PREVENTION SUPS	40	40	0	0.0	10	8	WORK EXPERIENCE
397	61005	POLICE AND DETECTIVE SUPERVISORS	20	20	0	0.0	0	8	WORK EXPERIENCE
398	61008	HOUSEKEEPING SUPERVISORS	20	30	10	50.0	0	8	WORK EXPERIENCE
399	61099	FIRST-LINE SUP/MGR SERV WKRS, NEC	210	240	30	14.3	40	8	WORK EXPERIENCE



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			1999 (2)	2006					
400	63000	PROTECTIVE SERVICE OCCUPATIONS	810	940	130	16.0	180		
403	63008	FIRE FIGHTERS	140	140	0	0.0	20	9	LONG-TERM ON-THE-JOB TRAINING
405	63014	POLICE PATROL OFFICERS	150	180	30	20.0	30	9	LONG-TERM ON-THE-JOB TRAINING
406	63017	CORRECTION OFFICERS, JAILERS	370	460	90	24.3	80	9	LONG-TERM ON-THE-JOB TRAINING
416	63047	GUARDS AND WATCH GUARDS	90	90	0	0.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
417	63099	PROTECTIVE SERVICE WORKERS, NEC	60	70	10	16.7	30	11	SHORT-TERM ON-THE-JOB TRAINING
418	65000	FOOD, BEV PREP AND SERVICE OCCS	2,030	2,200	170	8.4	690		
419	65002	HOSTS, HOSTESSES--RESTAURANTS	50	60	10	20.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
420	65005	BARTENDERS	140	140	0	0.0	40	11	SHORT-TERM ON-THE-JOB TRAINING
421	65008	WAITERS AND WAITRESSES	350	400	50	14.3	150	11	SHORT-TERM ON-THE-JOB TRAINING
422	65011	FOOD SERVERS--OUTSIDE	30	30	0	0.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
423	65014	DINING RM ATTENDANTS, BAR HELPERS	90	90	0	0.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
424	65017	COUNTER ATTENDANTS--FOOD	50	50	0	0.0	30	11	SHORT-TERM ON-THE-JOB TRAINING
425	65021	BAKERS--BREAD AND PASTRY	50	50	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
426	65023	BUTCHERS AND MEAT CUTTERS	60	60	0	0.0	10	9	LONG-TERM ON-THE-JOB TRAINING
427	65026	COOKS--RESTAURANT	170	190	20	11.8	30	9	LONG-TERM ON-THE-JOB TRAINING
428	65028	COOKS--INSTITUTION OR CAFETERIA	120	120	0	0.0	20	9	LONG-TERM ON-THE-JOB TRAINING
429	65032	COOKS--SPECIALTY FAST FOOD	140	150	10	7.1	30	11	SHORT-TERM ON-THE-JOB TRAINING
430	65035	COOKS--SHORT ORDER	20	30	10	50.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
431	65038	FOOD PREPARATION WORKERS	270	290	20	7.4	110	11	SHORT-TERM ON-THE-JOB TRAINING
432	65041	COMBINED FOOD PREP AND SERVICE	430	470	40	9.3	180	11	SHORT-TERM ON-THE-JOB TRAINING
433	65099	FOOD SERVICE WORKERS, NEC	60	70	10	16.7	20	11	SHORT-TERM ON-THE-JOB TRAINING



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			1999 (2)	2006					
434	66000	HEALTH SERVICE, RELATED OCCS	690	880	190	27.5	100		
435	66002	DENTAL ASSISTANTS	50	70	20	40.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
436	66005	MEDICAL ASSISTANTS	110	150	40	36.4	20	10	MODERATE-TERM ON-THE-JOB TRAINING
437	66008	NURSE AIDES, ORDERLIES, ATTENDANTS	380	460	80	21.1	40	11	SHORT-TERM ON-THE-JOB TRAINING
438	66011	HOME HEALTH AIDES	70	100	30	42.9	10	11	SHORT-TERM ON-THE-JOB TRAINING
443	66026	PHARMACY AIDES	30	40	10	33.3	10	11	SHORT-TERM ON-THE-JOB TRAINING
444	66099	HEALTH SERVICE WORKERS, NEC	50	60	10	20.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
445	67000	CLEANING, BLDING SERV EX PRIV HOUS	750	810	60	8.0	110		
446	67002	MAIDS AND HOUSEKEEPING CLEANERS	300	350	50	16.7	40	11	SHORT-TERM ON-THE-JOB TRAINING
447	67005	JANITORS, CLEANERS--EXCEPT MAIDS	410	420	10	2.4	60	11	SHORT-TERM ON-THE-JOB TRAINING
450	67099	CLEANING, BLDING SERV--EX PH, NEC	40	40	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
451	68000	MISC PERSONAL SERVICE OCCUPATIONS	230	270	40	17.4	40		
453	68005	HAIRDRESSERS, HAIRSTYLISTS	20	30	10	50.0	10	7	POST-SECONDARY VOCATIONAL EDUCATION
456	68014	AMUSEMENT, RECREATION ATTENDANTS	50	50	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
458	68021	USHERS, LOBBY ATTENDANTS	30	30	0	0.0	0	11	SHORT-TERM ON-THE-JOB TRAINING
463	68035	PERSONAL AND HOME CARE AIDES	50	60	10	20.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
464	68038	CHILD CARE WORKERS	80	100	20	25.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
466	69000	MISC SERVICE WORKERS	160	180	20	12.5	30	8	WORK EXPERIENCE

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			1999 (2)	2006					
468	70000	AGRICULTURAL, FORESTRY, FISHING	370	400	30	8.1	70		
477	79000	MISC AG, FORESTRY, FISHING	370	400	30	8.1	70		
480	79011	GRADERS, SORTERS--AG PRODUCTS	50	50	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
487	79041	LABORERS, LANDSCAPING/GROUNDSKEEPI	190	210	20	10.5	40	11	SHORT-TERM ON-THE-JOB TRAINING
491	79999	AG, FORESTRY, FISHING--NEC	130	140	10	7.7	20	11	SHORT-TERM ON-THE-JOB TRAINING
492	80000	PROD, CONST, OPER, MAT HANDLING	6,150	6,710	560	9.1	1,060		
493	81000	FIRST-LINE SUP/MGR-BLUE COLLAR	440	480	40	9.1	80		
494	81002	FIRST-LINE SUP/MGR-MECH, REPAIRERS	110	120	10	9.1	20	8	WORK EXPERIENCE
495	81005	FIRST-LINE SUP/MGR-CONSTRUCTION	60	70	10	16.7	10	8	WORK EXPERIENCE
496	81008	FIRST-LINE SUP/MGR-PRODUCTION	120	130	10	8.3	20	8	WORK EXPERIENCE
497	81011	FIRST-LINE SUP/MGR-TRANSPORTATION	20	20	0	0.0	0	8	WORK EXPERIENCE
498	81017	FIRST-LINE SUP/MGR-HELP, LABORERS	30	30	0	0.0	10	8	WORK EXPERIENCE
499	81099	FIRST-LINE SUP/MGR-BLUE COLLAR NEC	100	110	10	10.0	20	8	WORK EXPERIENCE
500	83000	INSPECTORS, RELATED OCCUPATIONS	20	20	0	0.0	0		
502	83005	PROD INSPECTORS, TESTERS, & GRADER	20	20	0	0.0	0	8	WORK EXPERIENCE
505	85000	MECHANICS, INSTALLERS, REPAIRERS	860	940	80	9.3	160		

**Table 6**  
**Occupational Employment Projections (1)**  
**1999 - 2006**  
**MADERA COUNTY**

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999 (2)	2006					
506	85100	MACHINERY AND RELATED MECHANICS	450	490	40	8.9	80		
507	85110	MACHINERY MAINTENANCE MECHANICS	100	110	10	10.0	20	9	LONG-TERM ON-THE-JOB TRAINING
512	85118	MAINT MECHANICS--WATER, POWER	40	50	10	25.0	10	9	LONG-TERM ON-THE-JOB TRAINING
513	85119	MACHINERY MAINT MECHANICS, NEC	30	30	0	0.0	0	9	LONG-TERM ON-THE-JOB TRAINING
517	85132	MAINT REPAIRERS, GENL UTILITY	280	300	20	7.1	50	9	LONG-TERM ON-THE-JOB TRAINING
518	85300	MOBILE EQUIP MECHANICS, REPAIRERS	260	290	30	11.5	50		
519	85302	AUTOMOTIVE MECHANICS	160	180	20	12.5	30	9	LONG-TERM ON-THE-JOB TRAINING
520	85305	AUTOMOTIVE BODY, RELATED REPAIRERS	30	30	0	0.0	10	9	LONG-TERM ON-THE-JOB TRAINING
522	85311	BUS AND TRUCK MECHANICS	50	60	10	20.0	10	9	LONG-TERM ON-THE-JOB TRAINING
523	85314	MOBILE HEAVY EQUIP MECH--EX ENGINE	20	20	0	0.0	0	9	LONG-TERM ON-THE-JOB TRAINING
537	85700	OTHER ELECTRICAL EQUIP MECHANICS	40	50	10	25.0	10		
538	85702	TELEPHONE, CABLE TV INSTALLERS	40	50	10	25.0	10	9	LONG-TERM ON-THE-JOB TRAINING
549	85900	MISC MECH, INSTALLERS, REPAIRERS	110	110	0	0.0	20		
550	85902	HEATING, AC, REFRIG MECHANICS	50	50	0	0.0	10	9	LONG-TERM ON-THE-JOB TRAINING
568	85999	MECHS, INSTALLERS, REPAIRERS, NEC	60	60	0	0.0	10	9	LONG-TERM ON-THE-JOB TRAINING
569	87000	CONSTRUCTION TRADES	750	800	50	6.7	130		
570	87100	CARPENTERS AND RELATED WORKERS	210	220	10	4.8	40		
571	87102	CARPENTERS	210	220	10	4.8	40	9	LONG-TERM ON-THE-JOB TRAINING
577	87200	ELECTRICIANS AND RELATED WORKERS	120	130	10	8.3	20		
578	87202	ELECTRICIANS	120	130	10	8.3	20	9	LONG-TERM ON-THE-JOB TRAINING



**Table 6**  
**Occupational Employment Projections (1)**  
**1999 - 2006**  
**MADERA COUNTY**

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999 (2)	2006					
579	87300	MASONS AND RELATED WORKERS	50	50	0	0.0	0		
583	87311	CONCRETE AND TERRAZZO FINISHERS	50	50	0	0.0	0	9	LONG-TERM ON-THE-JOB TRAINING
586	87400	PAINTERS AND RELATED WORKERS	60	70	10	16.7	10		
587	87402	PAINTERS, PAPERHANGERS--CONST	60	70	10	16.7	10	10	MODERATE-TERM ON-THE-JOB TRAINING
588	87500	PLUMBERS AND RELATED WORKERS	120	120	0	0.0	10		
589	87502	PLUMBERS, PIPEFITTERS, STEAMFITTER	120	120	0	0.0	10	9	LONG-TERM ON-THE-JOB TRAINING
597	87700	SELECTED ROAD, RAIL AND RELATED	60	60	0	0.0	20		
600	87708	PAVING, TAMPING-EQUIP OPERATORS	30	30	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
601	87711	HIGHWAY MAINTENANCE WORKERS	30	30	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
603	87800	CONSTRUCTION TRADES, NEC	70	80	10	14.3	20		
607	87808	ROOFERS	40	40	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
609	87814	STRUCTURAL METAL WORKERS	30	40	10	33.3	10	9	LONG-TERM ON-THE-JOB TRAINING
612	87900	EXTRACTIVE AND RELATED WORKERS	60	70	10	16.7	10		
626	87999	CONST, EXTRACTIVE--EX HELPERS, NEC	60	70	10	16.7	10	10	MODERATE-TERM ON-THE-JOB TRAINING
627	89000	PRODUCTION OCCUPATIONS, PRECISION	650	720	70	10.8	100		
628	89100	METAL WORKERS, PRECISION	170	170	0	0.0	20		
631	89108	MACHINISTS	100	100	0	0.0	10	9	LONG-TERM ON-THE-JOB TRAINING
639	89132	SHEET METAL WORKERS	70	70	0	0.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING



**Table 6**  
**Occupational Employment Projections (1)**  
**1999 - 2006**  
**MADERA COUNTY**

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999 (2)	2006					
677	89900	OTHER PRECISION WORKERS	480	550	70	14.6	80	9	LONG-TERM ON-THE-JOB TRAINING
687	89999	WORKERS, PRECISION--NEC	480	550	70	14.6	80		
688	91000	MACH SETTERS, SET-UP, OPS, TENDERS	400	440	40	10.0	80	10	MODERATE-TERM ON-THE-JOB TRAINING
738	92500	PRINTING, BINDING, RELATED WORKERS	40	50	10	25.0	10		
748	92543	PRINTING PRESS MACHINE OPS, TENDER	40	50	10	25.0	10		
752	92700	TEXTILE, RELATED SETTERS, OPS	30	40	10	33.3	10	10	MODERATE-TERM ON-THE-JOB TRAINING
761	92726	LNDRY, DRYCLEAN MACH OPS--EX PRESS	30	40	10	33.3	10		
763	92900	MACH SETTER,SET-UP,OP--EX MET,PLAS	330	350	20	6.1	60	10	MODERATE-TERM ON-THE-JOB TRAINING
778	92944	CUTTING, SLICING MACH OPS, TNDRS	20	20	0	0.0	0		
781	92953	PAINTING, REL MACH OPS, TENDERS	20	20	0	0.0	0		
784	92962	SEPARATING, STILL MACH OPS, TNDRS	30	30	0	0.0	10		
785	92965	CRUSHING, MIXING MACH OPS, TNDRS	70	70	0	0.0	10		
788	92974	PACKAGING, FILLING MACH OPS, TNDRS	190	210	20	10.5	40		
791	93000	ASSEMBLERS AND FABRICATORS--HAND	530	540	10	1.9	80		
800	93900	OTHER HAND WORKERS	530	540	10	1.9	80	11	SHORT-TERM ON-THE-JOB TRAINING
801	93902	MACHINE ASSEMBLERS	30	30	0	0.0	0		
805	93914	WELDERS AND CUTTERS	60	60	0	0.0	10		
812	93935	CANNERY WORKERS	170	160	-10	-5.9	30		
818	93953	GRINDING, POLISHING WORKERS--HAND	40	40	0	0.0	10		

**Table 6**  
**Occupational Employment Projections (1)**  
**1999 - 2006**  
**MADERA COUNTY**

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999 (2)	2006					
819	93956	ASSEMB, FABRICATORS--EX MACH,ELECT	110	120	10	9.1	10	11	SHORT-TERM ON-THE-JOB TRAINING
820	93999	HAND WORKERS, NEC	120	130	10	8.3	20	11	SHORT-TERM ON-THE-JOB TRAINING
821	95000	PLANT AND SYSTEM OCCUPATIONS	80	90	10	12.5	10		
822	95002	WATER TREATMENT PLANT OPERATORS	80	90	10	12.5	10	9	LONG-TERM ON-THE-JOB TRAINING
834	97000	TRANS, MATERIAL MOVING MACHINE OPS	930	990	60	6.5	110		
835	97100	MOTOR VEHICLE OPERATORS	740	790	50	6.8	90		
836	97102	TRUCK DRIVERS, HEAVY	320	350	30	9.4	30	11	SHORT-TERM ON-THE-JOB TRAINING
837	97105	TRUCK DRIVERS, LIGHT	240	260	20	8.3	30	11	SHORT-TERM ON-THE-JOB TRAINING
839	97111	BUS DRIVERS--SCHOOL	120	120	0	0.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
841	97117	DRIVER/SALES WORKERS	60	60	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
866	97900	MATERIAL MOVEMENT EQUIP OPERATORS	190	200	10	5.3	20		
881	97944	CRANE AND TOWER OPERATORS	30	30	0	0.0	0	10	MODERATE-TERM ON-THE-JOB TRAINING
882	97947	INDUSTRIAL TRUCK,TRACTOR OPERATORS	110	110	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
886	97989	MATERIAL MOVING EQUIP OPS, NEC	50	60	10	20.0	10	10	MODERATE-TERM ON-THE-JOB TRAINING
888	98000	HELPERS, LABORERS, HAND--EX AG	1,490	1,690	200	13.4	310		
889	98100	MECHANIC AND REPAIRER HELPERS	40	50	10	25.0	10		
890	98102	HELPERS, MECHANIC & REPAIRER	40	50	10	25.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
891	98300	CONST TRADES, EXTRACTIVE--HELPERS	130	140	10	7.7	50		

**Table 6**  
**Occupational Employment Projections (1)**  
**1999 - 2006**  
**MADERA COUNTY**

LINE #	CA OES CODE	OCCUPATION	ANNUAL AVERAGES		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION/EXPERIENCE
			1999 (2)	2006					
893	98312	HELPERS--CARPENTERS AND RELATED	30	30	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
896	98315	HELPERS--PLUMBERS AND RELATED	30	30	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
897	98316	HELPERS--ROOFERS	30	30	0	0.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
898	98319	HELPERS--CONSTRUCTION TRADES, NEC	40	50	10	25.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
903	98700	FREIGHT, STOCK, MAT MOVERS, HAND	50	60	10	20.0	20		
906	98799	FREIGHT, MATERIAL MOVERS-HAND, NEC	50	60	10	20.0	20	11	SHORT-TERM ON-THE-JOB TRAINING
907	98900	MISC HELPERS, LABORERS--HAND	1,270	1,440	170	13.4	230		
908	98902	HAND PACKERS AND PACKAGERS	240	270	30	12.5	40	11	SHORT-TERM ON-THE-JOB TRAINING
909	98905	VEHICLE WASHERS, EQUIP CLEANERS	40	50	10	25.0	10	11	SHORT-TERM ON-THE-JOB TRAINING
910	98999	MISC HELPERS, LABORERS--HAND, NEC	990	1,120	130	13.1	180	11	SHORT-TERM ON-THE-JOB TRAINING

(1) Employment and projections contained in these tables are considered estimates. See introduction for an explanation of data limitations.

(2) March 2000 Benchmark



**Table 7**  
**Occupations With The Most Openings (1)**  
**(Growth plus Separations)**  
**1999 - 2006**  
**MADERA COUNTY**

CA OES CODE	OCCUPATION	NUMBER OF JOB OPENINGS	BLS TRAINING LEVEL	EDUCATION / EXPERIENCE
49023	CASHIERS	440	11	SHORT-TERM ON-THE-JOB TRAINING
49011	SALESPERSONS, RETAIL	300	11	SHORT-TERM ON-THE-JOB TRAINING
32502	REGISTERED NURSES	250	6	ASSOCIATE DEGREE
65041	COMBINED FOOD PREP AND SERVICE	220	11	SHORT-TERM ON-THE-JOB TRAINING
55347	GENERAL OFFICE CLERKS	210	11	SHORT-TERM ON-THE-JOB TRAINING
65008	WAITERS AND WAITRESSES	200	11	SHORT-TERM ON-THE-JOB TRAINING
31305	TEACHERS--ELEMENTARY SCHOOL	190	5	BACHELOR'S DEGREE
31308	TEACHERS--SECONDARY SCHOOL	190	5	BACHELOR'S DEGREE
63017	CORRECTION OFFICERS, JAILERS	170	9	LONG-TERM ON-THE-JOB TRAINING
19005	GENERAL MANAGERS, TOP EXECUTIVE	130	4	WORK EXPERIENCE, PLUS A BACHELOR'S OR HIGHER
65038	FOOD PREPARATION WORKERS	130	11	SHORT-TERM ON-THE-JOB TRAINING
66008	NURSE AIDES, ORDERLIES, ATTENDANTS	120	11	SHORT-TERM ON-THE-JOB TRAINING
31521	TEACHER AIDES, PARAPROFESSIONAL	110	6	ASSOCIATE DEGREE
51002	FIRST-LINE SUP/MGR, CLERL, ADM	100	8	WORK EXPERIENCE
53905	TEACHER AIDES & EDUC ASSTS, CLERICAL	100	11	SHORT-TERM ON-THE-JOB TRAINING
55305	RECEPTIONISTS, INFORMATION CLERKS	100	11	SHORT-TERM ON-THE-JOB TRAINING
67002	MAIDS AND HOUSEKEEPING CLEANERS	90	11	SHORT-TERM ON-THE-JOB TRAINING
41002	FIRST-LINE SUP/MGR--SALES	80	8	WORK EXPERIENCE
21114	ACCOUNTANTS AND AUDITORS	70	5	BACHELOR'S DEGREE
67005	JANITORS, CLEANERS--EXCEPT MAID	70	11	SHORT-TERM ON-THE-JOB TRAINING
85132	MAINT REPAIRERS, GENL UTILITY	70	9	LONG-TERM ON-THE-JOB TRAINING
98902	HAND PACKERS AND PACKAGERS	70	11	SHORT-TERM ON-THE-JOB TRAINING
49021	STOCK CLERKS--SALES FLOOR	60	11	SHORT-TERM ON-THE-JOB TRAINING
55108	SECRETARIES, GENERAL	60	7	POST-SECONDARY VOCATIONAL EDUCATION
63014	POLICE PATROL OFFICERS	60	9	LONG-TERM ON-THE-JOB TRAINING



**Table 7**  
**Occupations With The Most Openings (1)**  
**(Growth plus Separations)**  
**1999 - 2006**  
**MADERA COUNTY**

CA OES CODE	OCCUPATION	NUMBER OF JOB OPENINGS	BLS TRAINING LEVEL	EDUCATION / EXPERIENCE
66005	MEDICAL ASSISTANTS	60	10	MODERATE-TERM ON-THE-JOB TRAINING
79041	LABORERS, LANDSCAPING/GROUNDSKEEPING	60	11	SHORT-TERM ON-THE-JOB TRAINING
92974	PACKAGING, FILLING MACH OPS, TENDERS	60	10	MODERATE-TERM ON-THE-JOB TRAINING
97102	TRUCK DRIVERS, HEAVY	60	11	SHORT-TERM ON-THE-JOB TRAINING
31311	TEACHERS--SPECIAL EDUCATION	50	5	BACHELOR'S DEGREE
32102	PHYSICIANS AND SURGEONS	50	1	FIRST PROFESSIONAL DEGREE
55338	BOOKKEEPING, ACCOUNTING CLERKS	50	10	MODERATE-TERM ON-THE-JOB TRAINING
65026	COOKS--RESTAURANT	50	9	LONG-TERM ON-THE-JOB TRAINING
85302	AUTOMOTIVE MECHANICS	50	9	LONG-TERM ON-THE-JOB TRAINING
87102	CARPENTERS	50	9	LONG-TERM ON-THE-JOB TRAINING
97105	TRUCK DRIVERS, LIGHT	50	11	SHORT-TERM ON-THE-JOB TRAINING
21911	COMPL, ENFORCE INSPECT--EX CONS	40	8	WORK EXPERIENCE
22121	CIVIL ENGINEERS--INCLUDING TRAFFIC	40	5	BACHELOR'S DEGREE
27311	RECREATION WORKERS	40	5	BACHELOR'S DEGREE
31303	TEACHERS, PRESCHOOL	40	5	BACHELOR'S DEGREE
32302	RESPIRATORY THERAPISTS	40	6	ASSOCIATE DEGREE
32505	LICENSED PRACTICAL NURSES	40	7	POST-SECONDARY VOCATIONAL EDUCATION
49008	SALES REPS, NON-SCIENTIFIC EX RETAIL	40	10	MODERATE-TERM ON-THE-JOB TRAINING
65005	BARTENDERS	40	11	SHORT-TERM ON-THE-JOB TRAINING
65032	COOKS--SPECIALTY FAST FOOD	40	11	SHORT-TERM ON-THE-JOB TRAINING
66011	HOME HEALTH AIDES	40	11	SHORT-TERM ON-THE-JOB TRAINING
15008	MEDICINE, HEALTH SERVICES MGRS	30	4	WORK EXPERIENCE, PLUS A BACHELOR'S OR HIGHER
27302	SOCIAL WORKERS--MED, PSYCHIATRIC	30	3	MASTER'S DEGREE
27305	SOCIAL WKRS--EX MED, PSYCHIATRIC	30	5	BACHELOR'S DEGREE
27308	HUMAN SERVICES WORKERS	30	10	MODERATE-TERM ON-THE-JOB TRAINING
<b>TOTAL OF THESE OCCUPATIONS</b>		<b>4,700</b>		

(1) Excludes not elsewhere classified (NEC) categories.

**Table 8**  
**Occupations With Projected Declines (1)**  
**1999 - 2006**  
**MADERA COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF JOB DECLINES	OPENINGS DUE TO SEPARATIONS	BLS TRAINING LEVEL	EDUCATION / EXPERIENCE
		1999(2)	2006				
55307	TYPISTS, INCLUDING WORD PROCESSING	180	150	-30	20	10	MODERATE-TERM ON-THE-JOB TRAINING
93935	CANNERY WORKERS	170	160	-10	30	11	SHORT-TERM ON-THE-JOB TRAINING
49005	SALES REPS, SCIENTIFIC--EX RETAIL	100	90	-10	20	10	MODERATE-TERM ON-THE-JOB TRAINING
25105	COMPUTER PROGRAMMERS	50	40	-10	10	5	BACHELOR'S DEGREE
55328	STATISTICAL CLERKS	30	20	-10	0	10	MODERATE-TERM ON-THE-JOB TRAINING
<b>TOTAL OF THESE OCCUPATIONS</b>		<b>530</b>	<b>460</b>	<b>-70</b>	<b>80</b>		

(1) Excludes not elsewhere classified (NEC) categories.

(2) March 2000 Benchmark

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# Appendix





## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
ABLE SEAMEN	856	97514
ACCOUNTANTS AND AUDITORS	30	21114
ACCOUNTANTS, AUDITORS, FINANCE SPECIALISTS	25	21100
ACTUARIES	114	25313
ADJUDICATORS, JUDICIAL REVIEWERS	137	28105
ADJUSTMENT CLERKS	311	53123
ADMINISTRATIVE SERVICES MANAGERS	7	13014
ADVERTISING CLERKS	335	53908
AERONAUTICAL, ASTRONAUTICAL ENGINEERS	53	22102
AGRICULTURAL AND FOOD SCIENTISTS	91	24305
AGRICULTURAL ENGINEERS	60	22123
AGRICULTURAL SCIENCES TEACHERS, POSTSECONDARY	150	31201
AGRICULTURAL, FORESTRY, FISHING	468	70000
AGRICULTURE, FORESTRY, FISHING--NEC	491	79999
AIR HAMMER OPERATORS	598	87702
AIR TRANSPORTATION WORKERS	859	97700
AIRCRAFT ASSEMBLERS--PRECISION	793	93102
AIRCRAFT ENGINE SPECIALISTS	527	85326
AIRCRAFT MECHANICS	526	85323
AIRCRAFT PILOTS, FLIGHT ENGINEERS	860	97702
AIRPLANE DISPATCHERS, AIR TRAFFIC CONTROLLER	267	39002
AMBULANCE DRIVERS, ATTENDANTS, EX EMERGENCY MEDICAL TECHNICIANS	442	66023
AMUSEMENT, RECREATION ATTENDANTS	456	68014
ANIMAL BREEDERS	481	79015
ANIMAL CARETAKERS--EXCEPT FARM	483	79017
ANIMAL TRAINERS	482	79016
ANNOUNCERS--EX RADIO, TELEVISION	252	34021
ANNOUNCERS--RADIO AND TELEVISION	251	34017
ANTHROPOLOGY & SOCIOLOGY TEACHERS, POSTSECONDARY	166	31231
APPRAISERS--REAL ESTATE	280	43011
ARCHITECTS AND SURVEYORS	68	22300
ARCHITECTS--EX LANDSCAPE, MARINE	69	22302
ARCHITECTURE TEACHERS, POSTSECONDARY	162	31223
AREA, ETHNIC, & CULTURAL STUDIES TEACHERS, POSTSECONDARY	167	31232
ART, DRAMA, MUSIC TEACHERS, POSTSECONDARY	160	31218
ARTISTS AND RELATED WORKERS	257	34035
ASSEMBLERS AND FABRICATORS--HAND WORKING	791	93000
ASSEMBLERS, FABRICATORS--EX MACHINE, ELECTRICAL, PRECISION	819	93956
ASSEMBLERS, NEC--PRECISION	799	93197
ASSEMBLERS, PRECISION	792	93100
ASSESSORS	48	21917
ATHLETES, COACHES, UMPIRES, RELATED	265	34058
ATMOSPHERIC AND SPACE SCIENTISTS	86	24108
AUDIO-VISUAL SPECIALISTS	198	31508
AUTOMOTIVE BODY, RELATED REPAIRERS	520	85305
AUTOMOTIVE MECHANICS	519	85302
AUXILIARY EQUIPMENT OPERATORS--POWER	829	95023
BAGGAGE PORTERS AND BELLHOPS	459	68023
BAILIFFS	408	63023
BAKERS--BREAD AND PASTRY	425	65021



## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
BAKERS--MANUFACTURING	674	89805
BANKING, SECURITY, FINANCE, CREDIT WORKERS	303	53100
BARBERS	452	68002
BARTENDERS	420	65005
BICYCLE REPAIRERS	565	85951
BILL AND ACCOUNT COLLECTORS	323	53508
BILLING, COST, AND RATE CLERKS	357	55344
BILLING, POSTING, CALCULATING MACHINE OPERATORS	360	56002
BINDERY MACHINE OPERATORS, TENDERS	750	92546
BINDERY MACHINE SETTERS, SET-UP OPERATORS	745	92525
BIOLOGICAL SCIENTISTS	92	24308
BIOLOGICAL, AGRICULTURAL, FOOD TECHS	96	24502
BLASTERS AND EXPLOSIVES WORKERS	614	87905
BOILER OPERATORS, TENDERS--LOW PRESSURE	772	92926
BOILERMAKERS	640	89135
BOOKBINDERS	670	89721
BOOKKEEPING, ACCOUNTING, AUDITING CLERKS	355	55338
BRATTICE BUILDERS	576	87121
BRICKMASONS	580	87302
BRIDGE, LOCK, LIGHTHOUSE TENDERS	862	97802
BROADCAST NEWS ANALYSTS	250	34014
BROADCAST TECHNICIANS	255	34028
BROKERAGE CLERKS	313	53128
BROKERS--REAL ESTATE	278	43005
BUDGET ANALYSTS	31	21117
BUS AND TRUCK MECHANICS	522	85311
BUS DRIVERS	838	97108
BUS DRIVERS--SCHOOL	839	97111
BUSINESS TEACHERS, POSTSECONDARY	174	31242
BUTCHERS AND MEAT CUTTERS	426	65023
CABINETMAKERS AND BENCH CARPENTERS	646	89311
CAMERA OPERATORS	665	89713
CAMERA OPERATORS--TELEVISION AND MOTION PICTURE	254	34026
CAMERA, PHOTOGRAPHIC EQUIPMENT REPAIRERS	554	85914
CANNERY WORKERS	812	93935
CAPTAINS--WATER VESSEL	852	97502
CARDIOLOGY TECHNOLOGISTS	239	32925
CARPENTERS	571	87102
CARPENTRY AND RELATED WORKERS	570	87100
CARPET CUTTERS, DIAGRAMMERS, SEAMERS	811	93932
CARPET INSTALLERS	594	87602
CARPET, FLOOR INSTALLERS	593	87600
CASHIERS	294	49023
CEILING TILE INSTALLERS	572	87105
CEMENTING, GLUING MACHINE OPERATORS, TENDERS	782	92956
CENTRAL OFFICE AND PBX INSTALLERS	531	85502
CENTRAL OFFICE OPERATORS	372	57108
CHEMICAL ENGINEERS	57	22114
CHEMICAL EQUIPMENT CONTROLLERS, OPERATORS	775	92935
CHEMICAL EQUIPMENT TENDERS	776	92938



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
CHEMICAL PLANT, SYSTEM OPERATORS	824	95008
CHEMICAL TECHS--EXCEPT HEALTH	97	24505
CHEMISTRY TEACHERS, POSTSECONDARY	152	31204
CHEMISTS, EXCEPT BIOCHEMISTS	85	24105
CHILD CARE WORKERS	464	68038
CHIROPRACTORS	209	32113
CHOKE SETTERS	473	73005
CIVIL ENGINEERING TECHS	74	22502
CIVIL ENGINEERS--INCLUDING TRAFFIC	59	22121
CLAIMS EXAMINERS--INSURANCE	49	21921
CLAIMS TAKERS--UNEMPLOYMENT BENEFITS	38	21502
CLEANING, BUILDING SERVICE WORKERS	445	67000
CLEANING, BUILDING SERVICE WORKERS, NEC	450	67099
CLEANING, WASHING, PICKLING EQUIPMENT OPERATORS, TENDERS	783	92958
CLERGY	131	27502
CLERICAL & ADMINISTRATIVE SUPPORT WORKERS, NEC	393	59999
CLERICAL, ADMINISTRATIVE SUPPORT	299	50000
CLERICAL, ADMINISTRATIVE SUPPORT, NEC	392	59000
COIL WINDERS, TAPERS, FINISHERS	803	93908
COIN, VENDING MACHINE SERVICERS	564	85947
COMBINATION MACHINE TOOL OPERATORS--METAL, PLASTIC	707	91508
COMBINATION MACHINE TOOL SETTERS--METAL, PLASTIC	706	91505
COMBINED FOOD PREPARATION, SERVICE WORKERS	432	65041
COMMUNICATION EQUIPMENT MECHANICS, NEC	536	85599
COMMUNICATION EQUIPMENT OPERATORS, NEC	374	57199
COMMUNICATIONS EQUIPMENT MECHANICS, INSTALLERS, REPAIRERS	530	85500
COMMUNICATIONS EQUIPMENT OPERATORS	369	57100
COMMUNICATIONS TEACHERS, POSTSECONDARY	157	31213
COMMUNICATIONS, MAIL DISTRIBUTION	368	57000
COMMUNICATIONS, TRANSPORTATION UTILITIES OPERATION MANAGERS	16	15023
COMPLIANCE OFFICERS, ENFORCEMENT INSPECTORS--EX CONSTRUCTION	46	21911
COMPUTER ENGINEERS	62	22127
COMPUTER OPERATIONS--EX PERIPHERAL EQUIPMENT	363	56011
COMPUTER PROGRAMMER AIDES	107	25108
COMPUTER PROGRAMMERS	106	25105
COMPUTER SCIENCE TEACHERS, POSTSECONDARY	164	31226
COMPUTER SCIENTISTS AND RELATED	102	25100
COMPUTER SCIENTISTS, RELATED WORKERS, NEC	109	25199
COMPUTER SUPPORT SPECIALISTS	105	25104
COMPUTER, MATHEMATICAL, OPERATIONS RESEARCH, RELATED	101	25000
CONCRETE AND TERRAZZO FINISHERS	583	87311
CONST, EXTRACTIVE--EX HELPERS, NEC	626	87999
CONSTRUCTION MANAGERS	14	15017
CONSTRUCTION TRADES	569	87000
CONSTRUCTION TRADES WORKERS, NEC	611	87899
CONSTRUCTION TRADES, EXTRACTIVE--HELPERS	891	98300
CONSTRUCTION TRADES, NEC	603	87800
CONSTRUCTION, BUILDING INSPECTORS	45	21908
CONTINUOUS MINING MACHINE OPERATOR	622	87941
CONVEYOR OPERATORS AND TENDERS	883	97951



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
COOKING MACHINE OPERATORS, TENDERS--FOOD, TOBACCO	769	92917
COOKS--FAST FOOD	429	65032
COOKS--INSTITUTION OR CAFETERIA	428	65028
COOKS--RESTAURANT	427	65026
COOKS--SHORT ORDER	430	65035
COOLING, FREEZING EQUIPMENT OPERATORS, TENDERS	773	92928
CORRECTION OFFICERS, JAILERS	406	63017
CORRECTIVE, MANUAL ARTS THERAPISTS	216	32311
CORRESPONDENCE CLERKS	348	55317
COST ESTIMATORS	43	21902
COUNTER AND RENTAL CLERKS	292	49017
COUNTER ATTENDANTS--FOOD	424	65017
COURT CLERKS	325	53702
CRANE AND TOWER OPERATORS	881	97944
CREDIT ANALYSTS	27	21105
CREDIT AUTHORIZERS	308	53114
CREDIT CHECKERS	309	53117
CRIMINAL INVESTIGATORS, PUBLIC SERVICE	410	63028
CRIMINAL JUSTICE & LAW ENFORCEMENT TEACHERS	176	31246
CROSSING GUARDS	415	63044
CRUSHING, GRINDING, MIXING MACHINE OPERATORS, TENDERS	785	92965
CURATORS, ARCHIVISTS, AND RELATED	199	31511
CUSTOM TAILORS AND SEWERS	651	89505
CUSTOMER SERVICE REPRESENTATIVES--UTILITIES	354	55335
CUTTERS AND TRIMMERS--HAND	809	93926
CUTTING, FORMING, FABRICATING, PROCESSING MACHINE OPERATORS	731	92198
CUTTING, FORMING, FABRICATING, PROCESSING MACHINE SETTER	730	92197
CUTTING, SLICING MACHINE OPERATORS, TENDERS	778	92944
CUTTING, SLICING MACHINE SETTERS, SET-UP OPERATORS	777	92941
DAIRY PROCESSING EQUIPMENT OPERATORS--INCLUDING SETTERS	774	92932
DANCERS AND CHOREOGRAPHERS	263	34053
DATA BASE ADMINISTRATORS	104	25103
DATA ENTRY KEYERS--EX COMPOSING	365	56017
DATA KEYERS--COMPOSING	366	56021
DATA PROCESSING EQUIPMENT REPAIRERS	539	85705
DEMONSTRATORS AND PROMOTERS	296	49034
DENTAL ASSISTANTS	435	66002
DENTAL HYGIENISTS	233	32908
DENTAL LAB TECHNICIANS, PRECISION	684	89921
DENTISTS	206	32105
DERRICK OPERATORS--OIL, GAS EXTRACTION	617	87914
DESIGNERS, EX INTERIOR DESIGNERS	258	34038
DETAIL DESIGN DECORATORS, PAINTERS, PRECISION	681	89911
DETECTIVES, INVESTIGATORS--EX PUBLIC	412	63035
DIETETIC TECHNICIANS	229	32523
DIETITIANS AND NUTRITIONISTS	228	32521
DINING ROOM ATTENDANTS, BAR HELPERS	423	65014
DIRECTORS, RELIGIOUS ACTIVITIES, EDUCATION	132	27505
DIRECTORY ASSISTANCE OPERATORS	371	57105
DISPATCHERS--EX POLICE, FIRE, AMBULANCE	382	58005



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
DISPATCHERS--POLICE, FIRE, AMBULANCE	381	58002
DRAFTERS	78	22514
DRAGLINE OPERATORS	875	97926
DREDGE OPERATORS	876	97928
DRILLING MACHINE SETTERS--METAL, PLASTIC	692	91108
DRIVER/SALES WORKERS	841	97117
DRYWALL INSTALLERS	573	87108
DUPLICATING MACHINE OPERATORS	361	56005
DYERS, PRECISION	656	89521
EARTH DRILLERS, EXCEPT OIL AND GAS	613	87902
ECONOMICS TEACHERS, POSTSECONDARY	168	31233
ECONOMISTS--INCLUDING MARKET RESEARCH ANALYSTS	120	27102
EDUCATION ADMINISTRATORS	10	15005
EDUCATION TEACHERS, POSTSECONDARY	178	31252
ELECTRIC HOME APPLIANCE & POWER TOOL REPAIRERS	541	85711
ELECTRIC METER INSTALLERS, REPAIRERS	553	85911
ELECTRIC MOTOR, AND RELATED REPAIRERS	542	85714
ELECTRICAL AND RELATED WORKERS	577	87200
ELECTRICAL EQUIPMENT ASSEMBLERS--PRECISION	797	93114
ELECTRICAL EQUIPMENT MECHANICS, NEC	548	85799
ELECTRICAL INSTALLERS--TRANSPORTATION EQUIPMENT	547	85728
ELECTRICAL POWER-LINE INSTALLERS	545	85723
ELECTRICAL, ELECTRONIC ASSEMBLERS	802	93905
ELECTRICAL, ELECTRONIC ENGINEERING TECHS	75	22505
ELECTRICAL, ELECTRONIC ENGINEERS	61	22126
ELECTRICIANS	578	87202
ELECTROCARDIOGRAPH TECHNICIANS	240	32926
ELECTROLYTIC PLATING, MACHINE OPERATORS	721	91921
ELECTROLYTIC PLATING, MACHINE SETTER	720	91917
ELECTROMECHANICAL EQUIPMENT ASSEMBLERS--PRECISION	796	93111
ELECTROMEDICAL, BIOMEDICAL EQUIPMENT REPAIRER	552	85908
ELECTRONEURODIAGNOSTIC TECHNOLOGISTS	238	32923
ELECTRONIC DATA PROCESSING AND OFFICE MACHINE WORKERS	359	56000
ELECTRONIC HOME ENTERTAINMENT EQUIPMENT REPAIRERS	540	85708
ELECTRONIC PAGINATION SYSTEM WORKERS	662	89707
ELECTRONIC SEMICONDUCTOR PROCESSORS	764	92902
ELECTRONICS REPAIRERS--COMMERCIAL AND INDUSTRIAL	543	85717
ELEVATOR INSTALLERS AND REPAIRERS	560	85932
ELEVATOR OPERATORS	449	67011
EMBALMERS	271	39014
EMERGENCY MEDICAL TECHNICIANS	223	32508
EMPLOYMENT INTERVIEWERS--PRIVATE OR PUBLIC	40	21508
ENGINEERING TEACHERS, POSTSECONDARY	161	31222
ENGINEERING, MATHEMATICAL, AND NATURAL SCIENCE MANAGERS	8	13017
ENGINEERING, RELATED TECHS	73	22500
ENGINEERING, RELATED TECHS, NEC	81	22599
ENGINEERS	52	22100
ENGINEERS, ARCHITECTS, SURVEYORS	51	22000
ENGINEERS, NEC	67	22199
ENGLISH LANGUAGE & LITERATURE TEACHERS, POSTSECONDARY	158	31214



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
ENGRAVING, PRINTING WORKERS--HAND	817	93951
ESTIMATORS, DRAFTERS--UTILITIES	79	22517
ETCHERS, ENGRAVERS--PRECISION	638	89128
EXCAVATING, LOADING MACHINE OPS	874	97923
EXTRACTIVE AND RELATED WORKERS	612	87900
EXTRACTIVE WORKERS--EX HELPERS, NEC	625	87989
EXTRUDING MACHINE OPERATORS, TENDERS--SYNTHETIC/GLASS	755	92708
EXTRUDING MACHINE SETTERS--METAL, PLASTIC	700	91311
EXTRUDING, FORMING MACHINE OPERATORS, TENDERS	787	92971
EXTRUDING, FORMING, SETTERS, SET-UP OPERATORS	786	92968
FALLERS AND BUCKERS	472	73002
FARM AND HOME MANAGEMENT ADVISORS	193	31323
FARM EQUIPMENT MECHANICS	525	85321
FARM EQUIPMENT OPERATORS	484	79021
FARMWORKERS-FARM/RANCH ANIMALS	490	79858
FARMWORKERS-FOOD, FIBER CROPS	489	79856
FENCE ERECTORS	610	87817
FILE CLERKS	349	55321
FILM EDITORS	256	34032
FINANCIAL ANALYSTS, STATISTICAL	115	25315
FINANCIAL MANAGERS	3	13002
FINANCIAL SPECIALISTS, NEC	32	21199
FIRE FIGHTERS	403	63008
FIRE FIGHTING & PREVENTION SUPERVISORS	396	61002
FIRE INSPECTORS	401	63002
FIRST-LINE SUP/MGR-AGRICULTURE	470	72002
FIRST-LINE SUP/MGR-AGRICULTURE, FORESTRY, FISHING	469	72000
FIRST-LINE SUP/MGR-BLUE COLLAR	493	81000
FIRST-LINE SUP/MGR-BLUE COLLAR NEC	499	81099
FIRST-LINE SUP/MGR-CLERICAL, ADMINISTRATIVE SUPPORT	300	51000
FIRST-LINE SUP/MGR-CLERICAL, ADMINISTRATIVE SUPPORT	301	51002
FIRST-LINE SUP/MGR-CONSTRUCTION, EXTRACTIVE	495	81005
FIRST-LINE SUP/MGR-HELPERS, LABORERS	498	81017
FIRST-LINE SUP/MGR-MECHANICS, INSTALLERS, REPAIRERS	494	81002
FIRST-LINE SUP/MGR-PRODUCTION, OPERATING	496	81008
FIRST-LINE SUP/MGR-SALES	274	41000
FIRST-LINE SUP/MGR-SALES	275	41002
FIRST-LINE SUP/MGR-SERVICE	395	61000
FIRST-LINE SUP/MGR-SERVICE WORKERS, NEC	399	61099
FIRST-LINE SUP/MGR-TRANSPORTATION	497	81011
FISH AND GAME WARDENS	414	63041
FITTERS, STRUCTURAL METAL--PRECISION	795	93108
FLIGHT ATTENDANTS	460	68026
FLOOR LAYERS--EX CARPET, WOOD, TILES	595	87605
FLOOR SANDING MACHINE OPERATORS	596	87608
FOOD AND TOBACCO WORKERS, NEC	676	89899
FOOD BATCHMAKERS	675	89808
FOOD PREPARATION WORKERS	431	65038
FOOD SERVERS--OUTSIDE	422	65011
FOOD SERVICE AND LODGING MANAGERS	17	15026



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
FOOD SERVICE WORKERS, NEC	433	65099
FOOD WORKERS, PRECISION	672	89800
FOOD, BEVERAGE PREPARATION, SERVICE WORKERS	418	65000
FOREIGN LANGUAGE & LITERATURE TEACHERS, POSTSECONDARY	159	31215
FOREST FIRE INSPECTORS, PREVENTION SPECIALISTS	402	63005
FOREST, CONSERVATION WORKERS	478	79002
FORESTERS, CONSERVATION SCIENTISTS	90	24302
FORGING MACHINE SETTERS--METAL, PLASTIC	702	91317
FOUNDRY MOLD ASSEMBLY, SHAKE-OUT	719	91914
FOUNDRY MOLD, COREMAKERS, PRECISION	678	89902
FRAME WIRERS, CENTRAL OFFICE	532	85505
FREIGHT, MATERIAL MOVERS--HAND, NEC	906	98799
FREIGHT, STOCK, MATERIAL MOVERS, HAND	903	98700
FUNERAL ATTENDANTS	465	68041
FUNERAL DIRECTORS AND MORTICIANS	270	39011
FURNACE OPERATORS AND TENDERS	726	91935
FURNACE, KILN, OVEN, DRIER, KETTLE OPERATORS, TENDERS	771	92923
FURNITURE FINISHERS	647	89314
GAS APPLIANCE REPAIRERS	563	85944
GAS COMPRESSOR OPERATORS	873	97921
GAS PLANT OPERATORS	823	95005
GAS PUMPING STATION OPERATORS	872	97917
GAUGERS	827	95017
GEM AND DIAMOND WORKERS	686	89926
GENERAL MANAGERS, TOP EXECUTIVES	21	19005
GENERAL OFFICE CLERKS	358	55347
GEOGRAPHY TEACHERS, POSTSECONDARY	169	31234
GEOLOGISTS, GEOPHYSICISTS, OCEANOGRAPHERS	87	24111
GLAZIERS	608	87811
GLAZIERS, MANUFACTURING	804	93911
GRADER, BULLDOZER, SCRAPER OPERATORS	879	97938
GRADERS, SORTERS--AGRICULTURAL PRODUCTS	480	79011
GRADUATE ASSISTANTS, TEACHING	149	31117
GRINDING MACHINE SETTER--METAL, PLASTIC	694	91114
GRINDING, POLISHING WORKERS--HAND	818	93953
GUARDS AND WATCH GUARDS	416	63047
GUIDES	457	68017
HAIRDRESSERS, HAIRSTYLISTS, COSMETOLOGISTS	453	68005
HAND COMPOSITORS AND TYPESETTERS	659	89702
HAND PACKERS AND PACKAGERS	908	98902
HAND WORKERS, NEC	820	93999
HAND WORKERS--JEWELRY, PRECISION	637	89126
HARD TILE SETTERS	582	87308
HAZARDOUS MATERIALS REMOVAL WORKERS	605	87803
HEAD SAWYERS	734	92305
HEALTH ASSESSMENT, TREATMENT TEACHERS, POSTSECONDARY	156	31212
HEALTH CARE MAINTENANCE, TREATING	220	32500
HEALTH CARE PROFESSIONALS, PARAPROFESSIONALS, TECHNICIANS NEC	244	32999
HEALTH DIAGNOSING, TREATING PRACTITIONERS	204	32100
HEALTH DIAGNOSING, TREATING, NEC	211	32199



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
HEALTH DIAGNOSTICS TEACHERS, POSTSECONDARY	155	31211
HEALTH PRACTITIONERS, TECHS, RELATED	203	32000
HEALTH SERVICE WORKERS, NEC	444	66099
HEALTH SERVICE, RELATED WORKERS	434	66000
HEAT TREATING MACHINE OPERATORS, TENDERS	725	91932
HEATERS, METAL & PLASTIC	727	91938
HEATING EQUIPMENT SETTERS-METAL, PLASTIC	724	91928
HEATING, AIR CONDITIONING, REFRIGERATION MECHANICS	550	85902
HELPERS, LABORERS, HAND-EX AG	888	98000
HELPERS, MECHANIC & REPAIRER	890	98102
HELPERS-BRICK, STONE MASONS	892	98311
HELPERS-CARPENTERS AND RELATED	893	98312
HELPERS-CONSTRUCTION TRADES & EXTRACTIVE WORKERS	900	98399
HELPERS-CONSTRUCTION TRADES, NEC	898	98319
HELPERS-ELECTRICIANS, POWERLINE INSTALLERS	894	98313
HELPERS-EXTRACTIVE WORKERS	899	98323
HELPERS-PAINTERS AND RELATED	895	98314
HELPERS-PLUMBERS AND RELATED	896	98315
HELPERS-ROOFERS	897	98316
HIGHWAY MAINTENANCE WORKERS	601	87711
HISTORY TEACHERS, POSTSECONDARY	170	31235
HOIST AND WINCH OPERATORS	880	97941
HOME ECONOMICS TEACHERS, POSTSECONDARY	182	31262
HOME HEALTH AIDES	438	66011
HOSTS, HOSTESSES-RESTAURANTS	419	65002
HOTEL DESK CLERKS	331	53808
HOUSEKEEPING SUPERVISORS	398	61008
HUMAN SERVICES WORKERS	128	27308
INDUSTRIAL ENGINEERING TECHS	76	22508
INDUSTRIAL ENGINEERS-EXCEPT SAFETY	63	22128
INDUSTRIAL PRODUCTION MANAGERS	13	15014
INDUSTRIAL TRUCK,TRACTOR OPERATORS	882	97947
INDUSTRY SPECIFIC CLERICAL, ADMINISTRATIVE SUPPORT	302	53000
INSPECTORS, PRECISION, TESTERS & GRADERS	501	83002
INSPECTORS, PRODUCTION, TESTERS & GRADERS	502	83005
INSPECTORS, RELATED OCCUPATIONS	500	83000
INSPECTORS, TESTERS, RELATED, NEC	504	83099
INSTALLERS & REPAIRERS, MOBILE HOME	562	85938
INSTRUCTIONAL COORDINATORS	201	31517
INSTRUCTORS AND COACHES-SPORTS	192	31321
INSTRUCTORS-NON-VOC EDUCATION	191	31317
INSTRUMENT MAKERS, PRECISION	630	89105
INSTRUMENT REPAIRERS, PRECISION	551	85905
INSULATION WORKERS	604	87802
INSURANCE ADJUSTERS, EXAMINERS, INVESTIGATORS	315	53302
INSURANCE APPRAISERS-AUTO DAMAGE	316	53305
INSURANCE CLAIMS CLERKS	318	53311
INSURANCE EXAMINING CLERKS	317	53308
INSURANCE POLICY PROCESSING CLERKS	319	53314
INSURANCE UNDERWRITERS	26	21102



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
INSURANCE WORKERS	314	53300
INTERIOR DESIGNERS	259	34041
INTERVIEWING CLERKS--EX PERSONNEL, WELFARE	353	55332
INVESTIGATIVE, RELATED, EX INSURANCE	320	53500
INVESTIGATORS--CLERICAL	322	53505
JANITORS, CLEANERS--EXCEPT MAIDS	447	67005
JEWELERS AND SILVERSMITHS	636	89123
JOB PRINTERS	660	89705
JUDGES AND MAGISTRATES	136	28102
LABORERS, LANDSCAPING/GROUNDSKEEPING	487	79041
LANDSCAPE ARCHITECTS	71	22308
LATHE MACHINE SETTERS--METAL, PLASTIC	691	91105
LATHERS	575	87114
LAUNDRY, DRYCLEAN MACHINE OPERATORS--EX PRESSING	761	92726
LAW AND RELATED OCCUPATIONS	134	28000
LAW CLERKS	140	28302
LAW TEACHERS, POSTSECONDARY	175	31244
LAWN SERVICE MANAGER	19	15032
LAWYERS	138	28108
LAWYERS AND RELATED WORKERS	135	28100
LAYOUT WORKERS--METAL, PRECISION	634	89117
LECTURERS	147	31111
LEGAL ASSISTANTS, TECHNICIANS, EX CLERICAL	139	28300
LEGAL ASSISTANTS, TECHNICIANS--EX CLERICAL, NEC	144	28399
LETTERPRESS SETTERS, SET-UP OPS	741	92515
LIBRARIANS, ARCHIVISTS AND RELATED	195	31500
LIBRARIANS--PROFESSIONAL	196	31502
LIBRARY ASSISTANTS & BOOKMOBILE DRIVERS	333	53902
LIBRARY SCIENCE TEACHERS, POSTSECONDARY	180	31256
LICENSE CLERKS	327	53708
LICENSED PRACTICAL NURSES	222	32505
LIFE SCIENCES TEACHERS, POSTSECONDARY	151	31202
LIFE SCIENTISTS	89	24300
LIFE SCIENTISTS, NEC	94	24399
LITHOGRAPHY & PHOTOENGRAVING, PRECISION	663	89710
LITHOGRAPHY& PHOTOENGRAVING WORKERS,NEC	669	89719
LOADING MACHINE OPERATORS--MINING	877	97932
LOAN AND CREDIT CLERKS	310	53121
LOAN INTERVIEWERS	307	53111
LOAN OFFICERS AND COUNSELORS	28	21108
LOCKSMITHS AND SAFE REPAIRERS	557	85923
LOCOMOTIVE ENGINEERS	845	97305
LOCOMOTIVE FIRERS	847	97311
LODGING AND TRAVEL WORKERS	328	53800
LOG GRADERS AND SCALERS	479	79008
LOGGING TRACTOR OPERATORS	475	73011
LOG-HANDLING EQUIPMENT OPERATORS	474	73008
LONGSHORE EQUIPMENT OPERATORS	867	97902
MACHINE ASSEMBLERS	801	93902
MACHINE BUILDERS, OTHER PRECISION MACHINE ASSEMBLERS	794	93105



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MACHINE FEEDERS AND OFFBEARERS	901	98500
MACHINE FEEDERS AND OFFBEARERS, NEC	902	98502
MACHINE FORMING OPERATORS, TENDERS--METAL, PLASTIC	703	91321
MACHINE FORMING SETTERS--METAL, PLASTIC	696	91300
MACHINE OPERATORS AND TENDERS, NEC	790	92998
MACHINE SETTER, SET-UP, OPERATOR--EX METAL, PLASTIC	763	92900
MACHINE SETTERS, SET-UP OPERATORS, NEC	789	92997
MACHINE SETTERS, SET-UP, OPERATORS, TENDERS	688	91000
MACHINE TOOL CUTTING OPERATORS--METAL, PLASTIC	695	91117
MACHINE TOOL CUTTING--METAL, PLASTIC	689	91100
MACHINE TOOL SETTERS, OPERATORS--METAL, PLASTIC	704	91500
MACHINERY AND RELATED MECHANICS	506	85100
MACHINERY MAINTENANCE MECHANICS	507	85110
MACHINERY MAINTENANCE MECHANICS, NEC	513	85119
MACHINERY MAINTENANCE WORKERS	516	85128
MACHINISTS	631	89108
MAIDS AND HOUSEKEEPING CLEANERS	446	67002
MAIL CLERKS--EX MAIL MACHINE OPERATORS, POSTAL SERVICE	376	57302
MAIL MACH OPERATORS--PREPARATION AND HANDLING	362	56008
MAIL, MESSAGE DISTRIBUTION WORKERS	375	57300
MAIN LINE STATION ENGINEERS	871	97914
MAINTENANCE MECHANICS--MARINE EQUIPMENT	510	85116
MAINTENANCE MECHANICS--SEWING MACHINE	509	85113
MAINTENANCE MECHANICS--TEXTILE	508	85112
MAINTENANCE MECHANICS--WATER, POWER	512	85118
MAINTENANCE REPAIRERS, GENERAL UTILITY	517	85132
MANAGEMENT ANALYSTS	44	21905
MANAGEMENT SUPPORT OCCUPATIONS	24	21000
MANAGEMENT SUPPORT WORKERS, NEC	50	21999
MANAGERIAL AND ADMINISTRATIVE OCCUPATIONS	2	10000
MANAGERS AND ADMINISTRATORS, NEC	22	19999
MANICURISTS	454	68008
MARINE ARCHITECTS	70	22305
MARINE ENGINEERS	66	22138
MARKETING, ADVERTISING, PUBLIC RELATIONS MANAGERS	6	13011
MARKING CLERKS	387	58021
MASONRY AND RELATED WORKERS	579	87300
MATERIAL MOVEMENT EQUIP OPERATORS	866	97900
MATERIAL MOVING EQUIPMENT OPERATORS, NEC	886	97989
MATERIAL RECORDING, DISPATCHING	380	58000
MATERIAL RECORDING, RELATED, NEC	391	58099
MATES--SHIP, BOAT, AND BARGE	853	97505
MATHEMATICAL SCIENCES TEACHERS, POSTSECONDARY	163	31224
MATHEMATICAL SCIENTISTS	112	25310
MATHEMATICAL SCIENTISTS AND RELATED	110	25300
MATHEMATICAL SCIENTISTS, NEC	116	25319
MATHEMATICAL TECHNICIANS	117	25323
MEAT, POULTRY, FISH CUTTERS, TRIMMERS--HAND	813	93938
MECHANIC AND REPAIRER HELPERS	889	98100
MECHANICAL CONTROL, VALVE INSTALLERS	559	85928



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MECHANICAL ENGINEERING TECHS	77	22511
MECHANICAL ENGINEERS	65	22135
MECHANICS, INSTALLERS, REPAIRERS	505	85000
MECHANICS, INSTALLERS, REPAIRERS, NEC	568	85999
MECHANICS, NEC	529	85399
MEDICAL APPLIANCE MAKERS	685	89923
MEDICAL ASSISTANTS	436	66005
MEDICAL RECORDS TECHNICIANS	234	32911
MEDICAL SCIENTISTS	93	24311
MEDICAL, CLINICAL LABORATORY TECHNICIANS	232	32905
MEDICAL, CLINICAL LABORATORY TECHNOLOGISTS	231	32902
MEDICINE, HEALTH SERVICES MGRS	11	15008
MENDERS, GARMENTS AND LINENS	567	85956
MERCHANDISE DISPLAYERS, WINDOW TRIMMERS	260	34044
MERCHANDISE, PRODUCTS AND OTHER SALES	286	49000
MESSENGERS	379	57311
METAL FABRICATING MACHINE SETTERS, OPERATORS	708	91700
METAL FABRICATOR, STRUCTURAL METAL PRODUCTS	713	91714
METAL MOLDING MACHINE OPERATORS AND TENDERS	718	91911
METAL MOLDING, MACHINE SETTER, SET-UP OPERATORS	717	91908
METAL POURERS, CASTERS--BASIC SHAPES	814	93941
METAL WORKERS, NEC--PRECISION	641	89199
METAL WORKERS, PRECISION	628	89100
METAL, PLASTIC MACHINE SETTERS, OPERATORS NEC	729	92100
METAL, PLASTIC PROCESSING MACHINE SETTERS	714	91900
METALLURGISTS, RELATED ENGINEERS	54	22105
METER READERS--UTILITIES	385	58014
MILLING MACHINE SETTERS--METAL, PLASTIC	693	91111
MILLWRIGHTS	514	85123
MINE CUTTING, CHANNELING MACHINE OPERATORS	623	87943
MINING ENGINEERS--INCLUDING MINE SAFETY	55	22108
MINING MACHINE OPERATORS	621	87940
MINING MACHINE OPERATORS, NEC	624	87949
MINING, QUARRYING, OIL AND GAS, RELATED MANAGERS	15	15021
MISC AG, FORESTRY, FISHING	477	79000
MISC HELPERS, LABORERS--HAND	907	98900
MISC HELPERS, LABORERS--HAND, NEC	910	98999
MISC METAL, PLASTIC MACHINE SETTERS, OPERATORS	728	91999
MISC SERVICE WORKERS	466	69000
MISC TRANSPORTATION WORKERS	861	97800
MISCELLANEOUS INDUSTRY SPECIFIC WORKERS	332	53900
MISCELLANEOUS MECHANICS, INSTALLERS, REPAIRERS	549	85900
MISCELLANEOUS PROFESSIONALS, PARAPROFESSIONALS, TECHNICAL	266	39000
MISCELLANEOUS SECRETARIAL, GENERAL OFFICE OCCUPATIONS	343	55300
MOBILE EQUIPMENT MECHANICS, INSTALLERS, REPAIRERS	518	85300
MOBILE HEAVY EQUIPMENT MECHANICS--EX ENGINES	523	85314
MODELS	297	49036
MOLDERS AND CASTERS--HAND	815	93944
MOLDERS, SHAPERS--EX JEWELRY	679	89905
MOTION PICTURE PROJECTIONISTS	765	92905



## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MOTOR VEHICLE OPERATORS	835	97100
MOTOR VEHICLE OPERATORS, NEC	842	97199
MOTORBOAT OPERATORS	855	97511
MOTORCYCLE REPAIRERS	521	85308
MUNICIPAL CLERKS	326	53705
MUNICIPAL WORKERS	324	53700
MUSIC DIRECTORS, SINGERS, COMPOSERS	261	34047
MUSICAL INSTRUMENT REPAIRERS AND TUNERS	556	85921
MUSICIANS--INSTRUMENTAL	262	34051
NATURAL SCIENTISTS AND RELATED WORKERS	82	24000
NEW ACCOUNTS CLERKS	305	53105
NONELECTROLYTIC PLATING MACHINE OPERATORS	723	91926
NONELECTROLYTIC PLATING MACHINE SETTERS	722	91923
NUCLEAR ENGINEERS	58	22117
NUCLEAR MEDICINE TECHNOLOGISTS	236	32914
NUCLEAR TECHNICIANS & TECHNOLOGISTS	98	24508
NUMERICAL MACHINE TOOL OPERATORS--METAL, PLASTIC	705	91502
NUMERICAL TOOL, PROCESS PROGRAMMERS	108	25111
NURSE AIDES, ORDERLIES, ATTENDANTS	437	66008
NURSERY, GREENHOUSE MANAGER	18	15031
NURSING INSTRUCTORS, POSTSECONDARY	148	31114
OCCUPATIONAL THERAPISTS	214	32305
OCCUPATIONAL THERAPY ASSISTANTS & AIDES	441	66021
OCCUPATIONS NOT CLASSIFIED	911	
OFFICE MACHINE OPERATORS, NEC	367	56099
OFFICE MACHINE, CASH REGISTER SERVICERS	558	85926
OFFSET LITHOGRAPHIC PRESS SETTERS	740	92512
OIL PUMPERS--EXCEPT WELLHEAD	869	97908
OPERATING ENGINEERS	885	97956
OPERATIONS, SYSTEMS RESEARCHERS, ANALYSTS--EX COMPUTER	111	25302
OPTICAL GOODS WORKERS, PRECISION	683	89917
OPTICIANS--DISPENSING, MEASURING	225	32514
OPTOMETRISTS	207	32108
ORDER CLERKS--MATERIALS, SERVICE	350	55323
ORDER FILLERS--WHOLESALE, RETAIL SALES	389	58026
ORDINARY SEAMEN AND MARINE OILERS	857	97517
OTHER ELECTRICAL EQUIPMENT MECHANICS	537	85700
OTHER HAND WORKERS	800	93900
OTHER HEALTH PROFESSIONALS, PARAPROFESSIONALS, TECHNICIANS	230	32900
OTHER MANAGEMENT SUPPORT WORKERS	42	21900
OTHER PRECISION WORKERS	677	89900
OTHER PROFESSIONAL, PARAPROFESSIONAL, TECHNICAL	272	39999
OTHER SOCIAL SCIENCE RELATED WORKERS	124	27300
OTHER TEACHERS AND INSTRUCTORS	184	31300
PACKAGING, FILLING MACHINE OPERATORS, TENDERS	788	92974
PAINTERS AND RELATED WORKERS	586	87400
PAINTERS, PAPERHANGERS--CONSTRUCTION & MAINTENANCE	587	87402
PAINTERS, TRANSPORTATION EQUIPMENT	779	92947
PAINTING, COATING, DECORATING--HAND	816	93947
PAINTING, COATING, SPRAYING MACHINE OPERATORS, TENDERS	781	92953



## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PAINTING, COATING, SPRAYING MACHINE SETTERS	780	92951
PAPER GOODS MACHINE SETTERS, SET-UP OPERATORS	768	92914
PARALEGAL PERSONNEL	141	28305
PARKING ENFORCEMENT OFFICERS	407	63021
PARKING LOT ATTENDANTS	864	97808
PARKS, RECREATION, LEISURE, FITNESS STUDIES TEACHERS, POSTSEC	181	31258
PASTE-UP WORKERS	661	89706
PATTERN AND MODEL MAKERS—METAL	633	89114
PATTERN AND MODEL MAKERS—WOOD	643	89302
PATTERN MARKERS—WOOD	644	89305
PATTERNMAKERS AND LAYOUT WORKERS	650	89502
PATTERNMAKERS, MODEL MAKERS, LAYOUT	680	89908
PAVING, TAMPING-EQUIPMENT OPERATORS	600	87708
PAYROLL AND TIMEKEEPING CLERKS	356	55341
PERIPHERAL EDP EQUIPMENT OPERATORS	364	56014
PERSONAL SERVICE OCCUPATIONS	451	68000
PERSONAL, HOME CARE AIDES	463	68035
PERSONNEL CLERKS—EX PAYROLL AND TIMEKEEPING	347	55314
PERSONNEL, TRAINING, LABOR RELATIONS MANAGERS	4	13005
PERSONNEL, TRAINING, LABOR RELATIONS SPECIALISTS, NEC	41	21511
PERSONNEL, TRAINING, LABOR RELATIONS SPECIALISTS	37	21500
PEST CONTROLLERS AND ASSISTANTS	448	67008
PETRO REFINERY, CONTROL PANEL OPERATORS	826	95014
PETROLEUM ENGINEERS	56	22111
PETROLEUM PUMP SYSTEM OPERATORS	825	95011
PETROLEUM TECHNICIANS & TECHNOLOGISTS	99	24511
PHARMACISTS	226	32517
PHARMACY AIDES	443	66026
PHARMACY TECHNICIANS	227	32518
PHILOSOPHY & RELIGION TEACHERS, POSTSECONDARY	179	31254
PHOTOENGRAVERS	664	89712
PHOTOENGRAVING, LITHOGRAPHIC MACHINE OPERATORS	749	92545
PHOTOGRAPHERS	253	34023
PHOTOGRAPHIC PROCESS WORKER, PRECISION	682	89914
PHOTOGRAPHIC PROCESSING MACHINE OPERATORS, TENDERS	766	92908
PHYSICAL SCIENCE TEACHERS, POSTSECONDARY	154	31209
PHYSICAL SCIENTISTS	83	24100
PHYSICAL SCIENTISTS, NEC	88	24199
PHYSICAL THERAPISTS	215	32308
PHYSICAL THERAPY ASSISTANTS & AIDES	440	66017
PHYSICAL, LIFE SCIENCE TECHS	95	24500
PHYSICAL, LIFE SCIENCE TECHS, NEC	100	24599
PHYSICIAN ASSISTANTS	224	32511
PHYSICIANS AND SURGEONS	205	32102
PHYSICISTS AND ASTRONOMERS	84	24102
PHYSICS TEACHERS, POSTSECONDARY	153	31206
PILE DRIVING OPERATORS	599	87705
PILOTS—SHIP	854	97508
PIPELAYERS	591	87508
PIPELAYING FITTERS	590	87505



## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PLANT AND SYSTEM OCCUPATIONS	821	95000
PLANT AND SYSTEM OPERATORS, NEC	833	95099
PLASTERERS AND STUCCO MASONS	585	87317
PLASTIC MOLDING, CASTING MACHINE OPERATORS	716	91905
PLASTIC MOLDING, CASTING MACHINE SETTER	715	91902
PLATEMAKERS	668	89718
PLUMBERS AND RELATED WORKERS	588	87500
PLUMBERS, PIPEFITTERS, STEAMFITTERS	589	87502
PODIATRISTS	208	32111
POLICE AND DETECTIVE SUPERVISORS	397	61005
POLICE DETECTIVES	404	63011
POLICE PATROL OFFICERS	405	63014
POLITICAL SCIENCE TEACHERS, POSTSECONDARY	171	31236
PORTABLE MACHINE CUTTERS	810	93928
POSTAL MAIL CARRIERS	377	57305
POSTAL SERVICE CLERKS	378	57308
POSTMASTERS, MAIL SUPERINTENDENTS	9	15002
POSTSECONDARY TEACHERS	146	31100
POSTSECONDARY TEACHERS, NEC	183	31299
POWER DISTRIBUTORS AND DISPATCHERS	831	95028
POWER PLANT OPS--EX AUXILIARY EQUIPMENT	828	95021
POWER REACTOR OPERATORS	830	95026
POWERHOUSE, RELAY ELECTRICIANS	544	85721
PRESS MACHINE SETTERS--METAL, PLASTIC	698	91305
PRESSERS--DELICATE FABRICS	655	89517
PRESSERS--HAND	807	93921
PRESSING MACHINE OPERATORS, TENDERS--TEXTILE, GARMENT RELATED	762	92728
PRINTING PRESS MACHINE OPERATORS, TENDER	748	92543
PRINTING PRESS SETTERS, SET UP OPERATORS	739	92510
PRINTING PRESS SETTERS, SET-UP OPERATORS NEC	742	92519
PRINTING RELATED SETTERS, SET-UP OPERATORS, NEC	746	92529
PRINTING WORKERS, NEC--PRECISION	671	89799
PRINTING WORKERS, PRECISION	658	89700
PRINTING, BINDING, RELATED MACHINE OPERATORS, TENDERS	751	92549
PRINTING, BINDING, RELATED WORKERS	738	92500
PROCUREMENT CLERKS	351	55326
PRODUCERS, DIRECTORS, ACTORS	264	34056
PRODUCTION OCCUPATIONS, PRECISION	627	89000
PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, MATERIAL HANDLING	492	80000
PRODUCTION, PLANNING, EXPEDITING CLERKS	383	58008
PROFESSIONAL, PARAPROFESSIONAL, TECHNICAL	23	20000
PROOFREADERS AND COPY MARKERS	336	53911
PROPERTY, REAL ESTATE MANAGERS	12	15011
PROTECTIVE SERVICE OCCUPATIONS	400	63000
PROTECTIVE SERVICE WORKERS, NEC	417	63099
PRUNERS	485	79033
PSYCHIATRIC AIDES	439	66014
PSYCHIATRIC TECHNICIANS	242	32931
PSYCHOLOGISTS	122	27108
PSYCHOLOGY TEACHERS, POSTSECONDARY	172	31237



## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PUBLIC ADMINISTRATION CHIEF EXECS, LEGISLATORS, GENERAL ADMIN	20	19002
PUBLIC RELATIONS SPECIALISTS, PUBLICITY WRITERS	248	34008
PUMP OPERATORS	884	97953
PUNCHING MACHINE SETTERS--METAL, PLASTIC	697	91302
PURCHASING AGENTS AND BUYERS	33	21300
PURCHASING AGENTS AND BUYERS--FARM PRODS	35	21305
PURCHASING AGENTS--EX WHOLESALE, RETAIL, FARM PRODUCTS	36	21308
PURCHASING MANAGERS	5	13008
RADIATION THERAPISTS	235	32913
RADIO MECHANICS	535	85514
RADIO OPERATORS	269	39008
RADIOLOGIC TECHNOLOGISTS	237	32919
RAIL CAR REPAIRERS	524	85317
RAIL TRANSPORTATION WORKERS	843	97300
RAIL VEHICLE OPERATIVES, NEC	850	97399
RAIL YARD ENGINEERS AND RELATED	846	97308
RAILROAD BRAKE, SIGNAL, SWITCH OPERATORS	849	97317
RAILROAD CONDUCTORS, YARDMASTERS	844	97302
RAILROAD, TRANSIT POLICE, SPECIAL AGENTS	413	63038
RAIL-TRACK LAYING, MAINTENANCE EQUIPMENT OPERATORS	602	87714
REAL ESTATE CLERKS	337	53914
RECEPTIONISTS, INFORMATION CLERKS	345	55305
RECREATION WORKERS	129	27311
RECREATIONAL THERAPISTS	218	32317
REFRACTORY MATERIALS REPAIRERS	515	85126
REFUSE & RECYCLABLE MATERIAL COLLECTORS	905	98705
REGISTERED NURSES	221	32502
REINFORCING METAL WORKERS	584	87314
RELIGIOUS WORKERS	130	27500
RELIGIOUS WORKERS, NEC	133	27599
REPORTERS AND CORRESPONDENTS	249	34011
RESERVATION, TRANSPORTATION TICKET AGENTS	330	53805
RESIDENTIAL COUNSELORS	127	27307
RESPIRATORY THERAPISTS	213	32302
RIGGERS	561	85935
ROASTING, BAKING, DRYING MACHINE OPERATORS--FOOD, TABACCO	770	92921
ROCK SPLITTERS, QUARRY	615	87908
ROLLING MACHINE SETTERS--METAL, PLASTIC	701	91314
ROOF BOLTERS	620	87923
ROOFERS	607	87808
ROTARY DRILL OPERATORS--OIL, GAS EXTRACTION	616	87911
ROUSTABOUTS	619	87921
SAFETY ENGINEERS--EXCEPT MINING	64	22132
SALES AGENTS, PLACERS--INSURANCE	277	43002
SALES AGENTS--ADVERTISING	284	43023
SALES AGENTS--FINANCIAL SERVICES	281	43014
SALES AGENTS--REAL ESTATE	279	43008
SALES AGENTS--SELECTED BUSINESS SERVICES	282	43017
SALES AND RELATED OCCUPATIONS	273	40000
SALES AND RELATED WORKERS, NEC	298	49999



## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
SALES ENGINEERS	287	49002
SALES REPRESENTATIVES, NON-SCIENTIFIC--EX RETAIL	289	49008
SALES REPRESENTATIVES, SALESPERSONS, SERVICES--NEC	285	43099
SALES REPRESENTATIVES, SCIENTIFIC--EX RETAIL	288	49005
SALES WORKERS--SERVICE	276	43000
SALESPERSONS, RETAIL	290	49011
SALESPERSONS--PARTS	291	49014
SAWING MACHINE OPERATORS AND TENDERS	735	92308
SAWING MACHINE SETTERS, SET-UP OPERATORS	733	92302
SAWING MACHINE TOOL SETTERS--METAL, PLAST	690	91102
SCANNER OPERATORS	666	89715
SCREEN PRINTING MACHINE SETTERS, SET-UP	744	92524
SECRETARIAL, GENERAL OFFICE	338	55000
SECRETARIES	339	55100
SECRETARIES, EX LEGAL AND MEDICAL	342	55108
SECRETARIES, LEGAL	340	55102
SECRETARIES, MEDICAL	341	55105
SELECTED ROAD, RAIL AND RELATED	597	87700
SEPARATING, STILL MACHINE OPERATORS, TENDERS	784	92962
SEPTIC TANK, SEWER PIPE CLEANERS	592	87511
SERVICE OCCUPATIONS	394	60000
SERVICE STATION ATTENDANTS	863	97805
SERVICE UNIT OPERATORS	618	87917
SERVICE WORKERS, NEC	467	69999
SEWERS--HAND	808	93923
SEWING MACHINE OPERATORS--GARMENT	758	92717
SEWING MACHINE OPERATORS--NON-GARMENT	759	92721
SHAMPOOERS	455	68011
SHEAR MACHINE SETTERS--METAL, PLASTIC	699	91308
SHEET METAL DUCT INSTALLERS	606	87805
SHEET METAL WORKERS	639	89132
SHERIFFS AND DEPUTY SHERIFFS	411	63032
SHIP ENGINEERS	858	97521
SHIPFITTERS	635	89121
SHIPPING, RECEIVING, TRAFFIC CLERKS	390	58028
SHOE AND LEATHER WORKERS--PRECISION	653	89511
SHOE SEWING MACHINE OPERATORS, TENDERS	760	92723
SHUTTLE CAR OPERATORS	878	97935
SIGNAL OR TRACK SWITCH MAINTAINERS	534	85511
SLAUGHTERERS AND BUTCHERS	673	89802
SMALL ENGINE SPECIALISTS	528	85328
SOCIAL SCIENCE TEACHERS, POSTSECONDARY	165	31230
SOCIAL SCIENCES TEACHERS, POSTSECONDARY	173	31239
SOCIAL SCIENTISTS, NEC	123	27199
SOCIAL SCIENTISTS, RECREATION, RELIGIOUS	118	27000
SOCIAL SCIENTISTS--INCLUDING URBAN, REGIONAL PLANNERS	119	27100
SOCIAL WORK TEACHERS, POSTSECONDARY	177	31247
SOCIAL WORKERS--EX MEDICAL, PSYCHIATRIC	126	27305
SOCIAL WORKERS--MEDICAL, PSYCHIATRIC	125	27302
SOLDERERS AND BRAZERS	806	93917



## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
SOLDERING, BRAZING MACHINE OPERATORS, TENDERS	712	91711
SOLDERING, BRAZING MACHINE SETTERS	711	91708
SPECIAL AGENTS--INSURANCE	39	21505
SPECIALTY MATERIALS PRINTING MACHINE SETTERS	743	92522
SPEECH PATHOLOGISTS, AUDIOLOGISTS	217	32314
SPOTTERS--DRY CLEANING	654	89514
SPRAYERS, APPLICATORS	486	79036
STATEMENT CLERKS	312	53126
STATION INSTALLERS--TELEPHONE	546	85726
STATIONARY ENGINEERS	832	95032
STATISTICAL CLERKS	352	55328
STATISTICIANS	113	25312
STENOGRAPHERS AND/OR COURT REPORTERS	344	55302
STEVEDORES--EX EQUIPMENT OPERATORS	904	98702
STOCK CLERKS--SALES FLOOR	293	49021
STOCK CLERKS--STOCKROOM, WAREHOUSE	388	58023
STONEMASONS	581	87305
STRIPPERS	667	89717
STRUCTURAL METAL WORKERS	609	87814
SUBWAY AND STREETCAR OPERATORS	848	97314
SURGICAL TECHNICIANS	241	32928
SURVEYING, MAPPING TECHS	80	22521
SURVEYORS, MAPPING SCIENTISTS	72	22311
SWITCHBOARD OPERATORS	370	57102
SYSTEMS ANALYSTS--ELECTRONIC DATA PROCESSING	103	25102
TANK CAR AND TRUCK LOADERS	868	97905
TAPERS	574	87111
TAX EXAMINERS, COLLECTORS, REVENUE AGENTS	47	21914
TAX PREPARERS	29	21111
TAXI DRIVERS AND CHAUFFEURS	840	97114
TEACHER AIDES, EDUCATIONAL ASSISTANTS, CLERICAL	334	53905
TEACHER AIDES, PARAPROFESSIONAL	202	31521
TEACHERS AND INSTRUCTORS, NEC	194	31399
TEACHERS, EDUCATORS, LIBRARIANS	145	31000
TEACHERS--ELEMENTARY SCHOOL	187	31305
TEACHERS--KINDERGARTEN	186	31304
TEACHERS--PRESCHOOL	185	31303
TEACHERS--SECONDARY SCHOOL	188	31308
TEACHERS--SPECIAL EDUCATION	189	31311
TEACHERS--VOCATIONAL EDUCATION AND TRAINING	190	31314
TECHNICAL ASSISTANTS--LIBRARY	197	31505
TECHNICAL WRITERS & EDITORS	247	34005
TELEGRAPH AND TELETYPE OPERATORS	373	57111
TELEGRAPH, TELETYPE INSTALLERS	533	85508
TELEMARKETERS, SOLICITORS & RELATED	295	49026
TELEPHONE, CABLE TELEVISION LINE INSTALLERS	538	85702
TELLERS	304	53102
TEXTILE BLEACHING, DYEING MACHINE OPERATORS	757	92714
TEXTILE DRAW-OUT MACHINE OPERATORS, TENDERS	756	92711
TEXTILE MACHINE SETTERS, SET-UP OPERATORS	753	92702



## Alphabetical Index of Occupations

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
TEXTILE OPERATORS,TENDERS--WINDING,TWISTING,KNITTING, WEAVING, CUTTING	754	92705
TEXTILE, APPAREL, FURNISHINGS, NEC--PREC	657	89599
TEXTILE, APPAREL, FURNISHINGS,PREC	649	89500
TEXTILE, RELATED SETTERS, OPERATORS	752	92700
THERAPISTS	212	32300
THERAPISTS, NEC	219	32399
TIMBER CUTTING AND LOGGING	471	73000
TIMBER CUTTING AND RELATED, NEC	476	73099
TIRE BUILDING MACHINE OPERATORS	767	92911
TIRE REPAIRERS AND CHANGERS	566	85953
TITLE EXAMINERS AND ABSTRACTORS	143	28311
TITLE SEARCHERS	142	28308
TOOL AND DIE MAKERS	629	89102
TOOL GRINDERS, FILERS, SHARPENERS	632	89111
TRAFFIC TECHNICIANS	268	39005
TRANSIT CLERKS	306	53108
TRANSPORTATION AGENTS	384	58011
TRANSPORTATION AND RELATED WORKERS, NEC	865	97899
TRANSPORTATION ATTENDANTS--EX FLIGHT ATTENDANTS	461	68028
TRANSPORTATION INSPECTORS	503	83008
TRANSPORTATION, MATERIAL MOVING EQUIPMENT OPERATORS, NEC	887	97999
TRANSPORTATION, MATERIAL MOVING MACHINE OPERATORS	834	97000
TRAVEL AGENTS	283	43021
TRAVEL CLERKS	329	53802
TRUCK DRIVERS, HEAVY	836	97102
TRUCK DRIVERS, LIGHT	837	97105
TYPESETTING, COMPOSING MACHINE OPERATORS	747	92541
TYPISTS, INCLUDING WORD PROCESSING	346	55307
UNDERGROUND MINE MACHINERY MECHANICS	511	85117
UNITED STATES MARSHALS	409	63026
UPHOLSTERERS	652	89508
URBAN AND REGIONAL PLANNERS	121	27105
USHERS, LOBBY ATTENDANTS	458	68021
VEHICLE WASHERS, EQUIPMENT CLEANERS	909	98905
VETERINARIANS AND VETERINARY INSPECTORS	210	32114
VETERINARY ASSISTANTS	488	79806
VETERINARY TECHNICIANS & TECHNOLOGISTS	243	32951
VOCATIONAL & EDUCATIONAL COUNSELOR	200	31514
WAITERS AND WAITRESSES	421	65008
WARDROBE, LOCKER, DRESSING ROOM ATTENDANTS	462	68032
WATCH ASSEMBLERS, RELATED--PRECISION	798	93117
WATCHMAKERS	555	85917
WATER TRANSPORTATION WORKERS	851	97500
WATER TREATMENT PLANT OPERATORS	822	95002
WEIGHERS, MEASURERS--RECORDKEEPING	386	58017
WELDERS AND CUTTERS	805	93914
WELDING MACHINE OPERATORS AND TENDERS	710	91705
WELDING MACHINE SETTERS, SET-UP OPERATORS	709	91702
WELFARE ELIGIBLE WORKERS, INTERVIEWERS	321	53502
WELLHEAD PUMPERS	870	97911



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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
WHOLESALE, RETAIL BUYERS--EX FARM PRODUCTS	34	21302
WOOD MACHINISTS	645	89308
WOODWORKERS, NEC--PRECISION	648	89399
WOODWORKERS, PRECISION	642	89300
WOODWORKING MACHINE OPERATORS, TENDERS--EX SAWING	737	92314
WOODWORKING MACHINE SETTERS, OPERATORS	732	92300
WOODWORKING MACHINE SETTERS--EX SAWING	736	92311
WORKERS, PRECISION--NEC	687	89999
WRITERS AND EDITORS	246	34002
WRITERS, ARTISTS, ENTERTAINERS, ATHLETES	245	34000



# Standard Industrial Classification Manual

The Standard Industrial Classification (SIC) is a nationally standardized system for identifying and coding business establishments according to their industrial activity. An "establishment" is an economic unit, generally located at a single physical location, where business is conducted or where services or industrial operations are performed. *The Standard Industrial Classification Manual* is the reference guide used to accurately apply and/or understand the classification coding system.

*The SIC Manual's* format separates industries into ten broad divisions, such as manufacturing and retail trade. Within those broad groupings are more specific two-digit codes, as well as more detailed three-digit and four-digit codes, that identify specific industries. Brief narratives describe the kinds of establishments contained in each classification category.

## Suggestions for Users

The SIC Manual facilitates the collection, analysis and publication of information about business establishments. This standardized system is used throughout the United States to promote uniformity in the publications of private and governmental agencies. The Employment Development Department's field office personnel use the manual to assign SIC codes to employers to aid in providing services. Trade associations and private industry use the manual in reference books, such as the *California Manufacturers Register*.

The manual can help one to understand the composite industries summarized in publications. However, all public sector workers are usually grouped together into a category

called "government", which includes federal, state and local government, and state and local education.

The U.S. Department of Labor, Occupational Safety and Health Administration provides SIC information on the Internet at

<http://www.osha.gov/oshstats/sicser.html>

*The SIC Manual* may be purchased from U.S. Government Bookstores, Bureau of Labor Statistics, or the Superintendent of Documents in Los Angeles or San Francisco. For information about purchasing this manual, contact:

U.S. Government Bookstore  
Marathon Plaza, Room 141-S  
303 2nd Street  
San Francisco, CA 94107  
Phone – (415) 512-2770  
Fax – (415) 512-2776  
<http://access.gpo.gov>



# North American Industry Classification System

The United States has a new industry classification system. The North American Industry Classification System (NAICS) will soon replace the U.S. Standard Industrial Classification (SIC) system.

NAICS is the first-ever North American Industry classification system. The system was developed by the U.S., Canada, and Mexico to provide comparable statistics across the three countries. For the first time, government and business analysts will be able to compare directly industrial production statistics collected and published in the three North American Free Trade Agreement countries.

NAICS will reshape the way we view our changing economy. It is a unique new system for classifying business establishments. It is the first economic classification system to be constructed based on a single economic concept. Economic units that use like processes to produce goods or services are grouped together. This "production-oriented" system means that statistical agencies in the United States will produce data that can be used for:

- measuring productivity, unit labor costs, and the capital intensity of production;
- constructing input-output relationships and;
- estimating employment-output relationships and other such statistics that require that inputs and outputs be used together.

NAICS responds to increasing and serious criticism about the SIC. NAICS reflects the structure of today's economy in the United States, Canada and Mexico, including the emergence and growth of the service sector

and new and advanced technologies. It is a flexible system that allows each country to recognize important industries below the level at which comparable data will be shown for all three countries.

The 1997 Economic Census will provide the first official NAICS-based statistics. Advance statistics will appear in early 1999. A report in 2000 will show relationships between NAICS and SIC industries.

Implementation by Federal agencies will be in phases. Some agency programs will convert to NAICS as early as 1999, others as late as 2004.

## How is NAICS better?

NAICS will make economic statistics more useful. It will improve basic benchmark and current performance statistics, like manufacturers' shipments, retail sales, and service receipts. It will improve statistics by providing an all new industry classification system that is more:

*Relevant.* NAICS identifies new industries, revises concepts, and reorganizes classifications so that industry-classified statistics highlight businesses that contribute most to our economy.

*Consistent.* NAICS classifies businesses into industries based on one principle instead of several; the principle that businesses using similar production processes are classified together.

*Comparable.* NAICS provides first-ever comparability in North American industry classifications and economic statistics.

*Flexible.* NAICS classifications will be updated

regularly to keep pace with changes in our economy; every 5 years, all three North American countries will review NAICS and make needed revisions.

### **How will NAICS affect the economic data you use?**

- Every sector of the economy has been restructured and redefined:
- A new *Information* sector combines communications, publishing, motion picture and sound recording, and online services, to recognize our information-based economy.
- *Manufacturing* is restructured to recognize new high-tech industries. A new subsector is devoted to computers and electronics, including reproduction of software.
- *Retail Trade* is redefined. In addition, eating and drinking places are transferred to a new *Accommodation and Food Services* sector.
- The difference between *Retail* and *Wholesale* is now based on how each store conducts business. For example, many computer stores are reclassified from wholesale to retail.
- Nine new service sectors and 250 new service industries are recognized.

### **All new numbering system**

Numeric codes for each NAICS classification are completely different from those of the SIC. The new numbering system underscores the "clean slate" approach taken in NAICS and allows its classification changes to be fully developed. The new system provides five levels of classification (up from four in the SIC), detailed codes that have a maximum of six-digits (up from four in the SIC) and detailed classifications called "U.S. Industry" (instead of "Industry" in the SIC). These changes require new numbers, even for industries that continue without change. For example, both

NAICS and SIC include the detailed industry, "Passenger car rental." However, in NAICS, it has code number 532111, and in the SIC, it was code number 7514. While all NAICS numeric codes are new, like the SIC, they are organized into multi-level hierarchical classification groups that build up from the detailed industry level. The additional level of classification and expanded number of digits permit NAICS to account for the increased number of classifications, provide flexibility in structuring industry classification groups, and allow for country-based variations in classification detail.

A variety of information resources are available to help users of business statistics understand and use NAICS. Additional information, answers to frequently asked questions, and updated agency implementation plans are available at the Census Bureau's Internet site:

**<http://www.census.gov/naics>**

Answers to specific classification and data program inquiries may also be addressed to industry experts at:

**Phone: 1-888-75NAICS**

**E-mail: [naics@census.gov](mailto:naics@census.gov)**



# Projections Methods and Economic Assumptions

The employment projection process consists of two phases: first, projections for employment by industry are made using both historical data and current information about the economy; and second, the industry projections become a primary data source used to project changes in occupational employment.

Changes in occupational employment over time result from two principal sources: industry growth and technological change. In developing occupational employment projections, both of these components must be addressed.

The following is a discussion of how industry and occupational projections are developed, beginning with a description of data sources and followed by a description of the steps involved.

## Principal Data Sources

### Employment by Industry

The source of the official historical industry employment series used for industry projections for the state and each county is the Current Employment Statistics (CES) program. This is a Federal/State cooperative program that compiles monthly estimates of industry employment groupings for the state and each county. These monthly industry employment estimates are based primarily on employer sample surveys.

A second source used in industry forecasts is the Covered Employment and Wage Data, or ES-202 program. Essentially, this program extracts employment and wage information from quarterly tax returns filed by each California employer covered by unemployment insurance. Each employer has been assigned a specific industry and county code

and these data are compiled to provide the 'actual' industry employment levels for each industry and county. These data are then used for benchmarking the monthly industry employment estimates made in the CES program. This is also a Federal/State cooperative program.

### Employment by Occupation

Occupational employment estimates are based on survey data collected through the Occupational Employment Statistics (OES) program. The OES survey is an annual mail survey of nonfarm employers conducted by the Employment Development Department in cooperation with the U.S. Bureau of Labor Statistics. The survey is based on a sample designed to represent the universe of employers in each state. In California, data are collected for over 800 occupations at the three-digit SIC level of detail. The survey samples approximately 110,000 business establishments over a three year period.

## The Process

### Industry Projections

Industry projections are first developed at aggregated levels (industry groupings) for the state and each county based on the Current Employment Statistics employment series. Second, these aggregated industry projections are then broken down into more industry specific detail using the ES-202 data. The industry specific projections then become the primary source from which occupational projections are developed by using industry staffing patterns data. The following steps outline the process:

- Approximately every two years, industry employment projections are produced for the nation by the Bureau of Labor Statistics.



- Industry projections are then developed for the state using input from the national forecast and the historical industry employment series for the state.
- Next, county industry projections are developed using input from the state forecast and the historical employment series for each county.
- State projections are developed for ten years from the base period and county projections are developed for seven years from the base period.
- The state forecasts are reviewed by Labor Market Information Division (LMID) industry analysts, California's Department of Finance and academics.
- County forecasts are reviewed by local area consultants who provide up to date information regarding recent developments in each county that would not normally be accounted for in the model.

### **Occupational Projections**

The distribution of industry employment by occupation is performed in three steps.

- OES survey responses are summarized by industry and matched with the appropriate SIC in the area. (In cases where local OES responses are not available, either statewide responses or another area's responses are substituted.)
- The survey data are adjusted to total to the annual average employment level for each industry. This results in estimates of employment by occupation within the three-digit SICs for the base year.
- Finally, base year staffing patterns are adjusted to account for projected shifts in the occupational distributions due to technological changes. These projected

changes are derived from special studies conducted by the U.S. Bureau of Labor Statistics. Applying these changes to the base year staffing patterns results in staffing patterns by three-digit SIC for the projected year. Projected year staffing patterns are applied to the industry employment projections to produce occupational employment projections within three-digit SICs.

Data by occupation are then summed to get the occupational estimates. The difference between the base year occupation estimates and the projected year projections represents the job growth resulting from industry growth and from technological change. (Change factors do not try to predict regulatory changes.)

Demand for workers is also created by openings that result when workers leave their jobs to enter other occupations, retire or leave the labor force for other reasons. These openings, termed *separations*, are important because, in most occupations, they exceed job openings resulting from employment growth. Even occupations that are projected to decline usually provide job openings due to separations. Separations are developed from separation rates compiled on a national basis every two years by the Bureau Of Labor Statistics.

### **Economic Assumptions**

The industry and occupational projections in this report are based on the following assumptions:

- The institutional framework of the U.S. economy will not change radically.
- Recent technological and scientific trends will continue.
- The long-term employment patterns will continue in most industries.

- Federal, state, and local government agencies will continue to operate under budgetary constraints.
- No major events, such as war, will occur that will significantly alter the industrial structure of the economy, the occupational staffing patterns, or the rate of long-term growth.
- Population growth rates and age distributions will not differ significantly from Department of Finance projections presently available.
- Attitudes toward work, education, income, and leisure will not change significantly.

# *Projections & Planning Information*

## **Module E:**

# **Wages**





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# Occupational Employment Statistics Wage Survey

The Occupational Employment Statistics (OES) survey is an annual mail survey measuring occupational employment and occupational wage rates for wage and salary workers in nonfarm establishments by industry. The survey samples approximately 37,000 establishments per year, taking 3 years to fully collect the sample of 113,000 establishments in California.

The 2000 OES survey is the second year to use the new Standard Occupational Classification (SOC) system to identify occupational categories. These survey samples are based only on two years of data collected in the 1999 and 2000 survey. Surveys prior to 1999 used the Occupational Employment Statistics (OES) classification system. Of the nearly 770 SOC occupations, 374 are a direct match with the OES classification system definitions. The rest are newly defined SOC occupations. The SOC structure and definitions can be found at the Bureau of Labor Statistics (BLS) SOC website at [www.bls.gov](http://www.bls.gov).

The wage data for all occupations have been updated to the third quarter of 2001 by applying the Employment Cost Index of the 2000 SOC wage database. The occupational employment estimates are for 2000. A more complete set of technical notes for the 2000 OES survey is available at the BLS website.

## 'Employment' Definition

The OES survey defines employment as the number of workers who can be classified as full-time or part-time employees; workers on paid vacations or other types of leave; workers on unpaid or short-term absences; salaried officers, executives, and staff members of incorporated firms; employees temporarily assigned to other units; and employees for whom the reporting unit is their permanent duty station, regardless of whether that unit prepares their paycheck. The survey excludes the self-employed, owners/partners of unincorporated firms, and unpaid family workers. Employees are reported in the occupation in which they are working, not necessarily for which they were trained.

## Business Establishment Description

The OES survey uses the Standard Industrial Classification (SIC) system to classify all an economic unit which processes goods or provides services, such as a factory or store. The establishment is generally at a single physical location and is engaged primarily in one type of economic activity.

The scope of the survey includes establishments in SIC codes 07, 10, 12 to 17, 20 to 42, 44 to 65, 67, 70, 72, 73, 75, 76, 78 to 84, 86, 87, and 89 covering agricultural services; mining; construction; manufacturing; transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; services; and government.

## Source of Sample Selection

The California Unemployment Insurance (UI) file provided the universe from which the OES survey draws its sample. The employment benchmark was obtained from reports submitted by employers to the UI program. In some nonmanufacturing industries, supplemental sources are used for establishments not reporting to the UI program.

The OES survey frame is stratified by area, industry and size class. Size classes are defined as follows:

Size Class	Number of Employees
1	1 to 4
2	5 to 9
3	10 to 19
4	20 to 49
5	50 to 99
6	100 to 249
7	250 and above

UI reporting units with 250 or more employees are sampled with certainty across a 3-year period. Generally, one-third of the certainty units are sampled each year in each state. There are some states that sample more than one-third of their certainty units during one survey year.

## Terms and Concepts

**Employment** represents the estimate of total wage and salary employment in an occupation across the industries in which it was surveyed. The OES survey form contains between 50 and 225 SOC occupations selected on the basis of the industry classification and size of the sampled establishments. To reduce paperwork and respondent burden, no survey form contains every SOC occupation. Thus, data for specific occupations are collected from establishments within industries that are the predominant employers of labor in those occupations.

**Wages** for the OES survey are straight-time gross pay, exclusive of premium pay. Included are base rate, cost-of-living allowances, guaranteed pay, hazardous duty pay, incentive pay including commissions and production bonuses, tips, and on-call pay. Excluded are back pay, jury duty pay, overtime pay, severance pay, shift differentials, non-production bonuses, employer cost of supplementary benefits, and tuition reimbursements.

The OES survey collects wage data in 12 intervals. Employers report the number of employees in an occupation per each wage range. The wage intervals are as follows:

Interval	Hourly Wage	Annual Wage
A	Under \$6.75	Under \$14,040
B	\$6.75 to 8.49	\$14,040 to 17,679
C	\$8.50 to 10.74	\$17,680 to 22,359
D	\$10.75 to 13.49	\$22,360 to 28,079
E	\$13.50 to 16.99	\$28,080 to 35,359
F	\$17.00 to 21.49	\$35,360 to 44,719
G	\$21.50 to 27.24	\$44,720 to 56,679
H	\$27.25 to 34.49	\$56,680 to 71,759
I	\$34.50 to 43.74	\$71,760 to 90,999
J	\$43.75 to 55.49	\$91,000 to 115,439
K	\$55.50 to 69.99	\$115,440 to 145,599
L	\$70.00 and over	\$145,600 and over

Wages are calculated using wage data from establishments in the industries that are the predominant employers of an occupation. Industries that do not typically employ workers in a given occupation are not included in the calculation of the mean and median wage.

**Mean Hourly Wage** is the estimated total wages for an occupation divided by its weighted survey employment. When the wages for an occupation are concentrated in the upper wage interval, it is not possible to calculate a reliable mean. In those instances, both the mean hourly wage and the mean annual wage are replaced by a "(3)" and the user is referred to the appropriate footnote. There are a small number of occupations where only an annual wage figure is provided; the workers in these occupations are generally paid on an annual basis, and their annual wage has been directly calculated from the reported survey data. Occupations that typically have a work-year of less than 2,080 hours include musical and entertainment occupations, aircraft pilots, flight attendants, and teachers. These occupations are identified in the data tables with "(2)" in the hourly wage cells.

**Median Hourly Wage** is the estimated 50th percentile of the distribution of wages; 50 percent of workers in an occupation earn wages below the median wage, and 50 percent earn wages above the median wage.

**Entry-Level Hourly Wage** is the mean of the first third of the wage distribution. This calculation is provided as a proxy for an entry-level wage.

**First Quartile Wage** is the estimated 25th percentile of the distribution of wages; 25 percent of workers in an occupation earn wages below the first quartile wage, and 75 percent earn wages above the first quartile wage.

**Third Quartile Wage** is the estimated 75th percentile of the distribution of wages; 75 percent of workers in an occupation earn wages below the third quartile wage, and 25 percent earn wages above the third quartile wage.

**Metropolitan Area** The general concept of a metropolitan area (MA) is one of a large population nucleus, together with adjacent communities that have a high degree of economic and social integration with that nucleus. Some MAs are defined around two or more nuclei. The MAs are designated and defined by the Federal Office of Management and Budget, following a set of official published standards. These standards were developed by

the Interagency Federal Executive Committee on Metropolitan Areas, with the aim of producing definitions that are as consistent as possible for all MAs nationwide.

***Metropolitan Statistical Area (MSA)*** A MSA comprises one or more central counties. A MSA also may include one or more outlying counties that have close economic and social relationships with the central county. An outlying county must have a specified level of commuting to the central counties and also must meet certain standards regarding metropolitan character, such as population density, urban population, and population growth. The title of a MSA contains the name of its largest city and up to two additional city names, provided that the additional places meet specified levels of population, employment and commuting. Generally a city of 250,000 or more is in the title, regardless of other criteria.

***Primary Metropolitan Statistical Area (PMSA)*** The criteria that designates and defines a MSA also designates and defines a PMSA. If an area that qualifies as a MA has more than one million persons, primary metropolitan statistical areas (PMSAs) may be defined within it. PMSAs consist of a large urbanized county or cluster of counties that demonstrate very strong internal economic and social links, in addition to close ties to other portions of the larger area. The title of a PMSA may contain up to three place names, or up to three county names, sequenced in order of population.

***Consolidated Metropolitan Statistical Area (CMSA)*** A CMSA consists of two or more Primary Metropolitan Statistical Areas (PMSAs).





# Occupational Employment Statistics (OES) Survey Results

## Fresno MSA

### Fresno & Madera Counties

These survey data are from the 2001 Occupational Employment Statistics (OES) survey. The wages have all been updated to the third quarter of 2002 by applying the US Department of Labor's Employment Cost Index to the 2001 wages. Occupations are classified using the Standard Occupational Classification (SOC) codes. For details of the methodology, see the Overview of the OES Survey at [http://www.calmis.ca.gov/file/occup\\$/oes\\$.htm](http://www.calmis.ca.gov/file/occup$/oes$.htm)

(Sorted by Occupational Title)

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
13-2011	Accountants and Auditors	\$15.51	\$22.80	\$17.22	\$20.48	\$25.87
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	\$32.32	\$45.53	\$38.36	\$48.62	\$54.07
11-3011	Administrative Services Managers	\$14.75	\$27.12	\$17.32	\$26.30	\$35.91
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	\$18.51	\$25.15	\$22.76	\$26.02	\$30.24
11-2011	Advertising and Promotions Managers	\$15.41	\$27.45	\$18.09	\$25.14	\$32.39
41-3011	Advertising Sales Agents	\$9.07	\$18.32	\$10.31	\$13.45	\$23.97
19-4011	Agricultural and Food Science Technicians	\$8.84	\$13.74	\$9.92	\$12.25	\$16.25
19-1010	Agricultural and Food Scientists	\$21.18	\$34.65	\$23.68	\$31.81	\$48.20
45-2091	Agricultural Equipment Operators	\$7.06	\$7.95	\$7.20	\$7.81	\$8.44
45-2011	Agricultural Inspectors	\$9.36	\$13.81	\$9.83	\$11.54	\$15.39
49-3011	Aircraft Mechanics and Service Technicians	\$13.88	\$19.30	\$16.01	\$19.21	\$21.60
17-1099	All Other Architects, Surveyors, and Cartographers	\$16.97	\$25.09	\$17.94	\$23.87	\$32.95
37-9099	All Other Building and Grounds Cleaning and Maintenance Workers	\$7.62	\$11.42	\$8.39	\$11.79	\$13.69
47-4999	All Other Construction Trades and Related Workers	\$11.88	\$17.80	\$13.09	\$16.83	\$21.89

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
21-9099	All Other Counselors, Social and Religious Workers	\$10.75	\$17.49	\$12.25	\$16.11	\$23.39
49-2099	All Other Electrical and Electronic Equipment Mechanics, Installers, and Repairers	\$16.73	\$23.26	\$17.74	\$21.25	\$29.71
43-4999	All Other Financial, Information, and Record Clerks	\$9.81	\$13.27	\$10.71	\$12.47	\$14.34
29-9199	All Other Health Professionals and Technicians	\$7.31	\$11.68	\$7.69	\$10.71	\$13.74
23-9099	All Other Legal and Related Workers	\$14.98	\$18.53	\$16.40	\$18.67	\$20.56
43-5199	All Other Material Recording, Scheduling, Dispatching, and Distributing Workers	\$11.50	\$13.79	\$12.41	\$13.66	\$14.94
43-9999	All Other Secretaries, Administrative Assistants, and Other Office Support	\$8.97	\$14.22	\$10.25	\$13.40	\$17.24
25-3999	All Other Teachers, Primary, Secondary, and Adult	(2)	(2)	(2)	(2)	(2)
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	\$7.66	\$11.21	\$7.83	\$8.91	\$10.27
39-3091	Amusement and Recreation Attendants	\$6.75*	\$7.57	\$6.75*	\$7.00	\$8.67
39-2011	Animal Trainers	\$8.40	\$11.63	\$9.41	\$10.34	\$11.26
27-3010	Announcers	\$8.26	\$17.64	\$9.19	\$13.64	\$23.77
13-2021	Appraisers and Assessors of Real Estate	\$18.50	\$25.92	\$19.44	\$23.21	\$30.02
17-1011	Architects, Except Landscape and Naval	\$20.26	\$26.44	\$22.71	\$26.19	\$29.57
17-3011	Architectural and Civil Drafters	\$11.95	\$17.42	\$13.40	\$17.01	\$20.67
17-0000	Architecture and Engineering Occupations	\$17.19	\$25.69	\$20.06	\$25.30	\$31.33
25-4010	Archivists, Curators, and Museum Technicians	\$9.81	\$19.62	\$11.56	\$16.55	\$27.48
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	\$8.51	\$16.79	\$9.80	\$15.13	\$21.19
51-2099	Assemblers and Fabricators, All Other	\$6.98	\$10.63	\$7.39	\$8.80	\$12.45



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
27-4011	Audio and Video Equipment Technicians	\$6.75*	\$15.17	\$6.99	\$11.57	\$19.32
29-1121	Audiologists	\$20.83	\$27.65	\$22.37	\$29.22	\$32.90
25-9011	Audio-Visual Collections Specialists	\$12.76	\$17.89	\$13.75	\$16.26	\$20.19
49-3021	Automotive Body and Related Repairers	\$8.99	\$12.24	\$9.40	\$10.86	\$14.74
49-3023	Automotive Service Technicians and Mechanics	\$9.49	\$15.62	\$10.78	\$14.58	\$19.75
49-2091	Avionics Technicians	\$10.51	\$14.90	\$11.19	\$14.64	\$18.88
39-6011	Baggage Porters and Bellhops	\$6.75*	\$10.31	\$7.13	\$9.05	\$12.61
51-3011	Bakers	\$7.70	\$10.45	\$7.96	\$9.11	\$12.48
35-3011	Bartenders	\$6.75*	\$7.75	\$7.01	\$7.71	\$8.49
43-3011	Bill and Account Collectors	\$8.72	\$12.80	\$9.46	\$11.85	\$14.71
43-3021	Billing and Posting Clerks and Machine Operators	\$9.34	\$12.01	\$10.12	\$12.05	\$13.69
51-5011	Bindery Workers	\$6.75*	\$10.96	\$6.75*	\$10.13	\$15.19
19-4021	Biological Technicians	\$9.66	\$14.89	\$10.88	\$14.20	\$18.54
43-3031	Bookkeeping, Accounting, and Auditing Clerks	\$9.27	\$13.46	\$10.59	\$13.08	\$16.01
47-2021	Brickmasons and Blockmasons	\$14.80	\$19.89	\$17.09	\$20.40	\$23.12
27-4012	Broadcast Technicians	\$8.05	\$12.61	\$8.70	\$10.77	\$16.58
43-4011	Brokerage Clerks	\$11.09	\$16.16	\$12.69	\$15.08	\$18.12
13-2031	Budget Analysts	\$23.48	\$30.03	\$24.30	\$27.45	\$37.92
37-0000	Building and Grounds Cleaning and Maintenance Occupations	\$6.75*	\$9.41	\$7.03	\$8.22	\$11.08
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	\$11.01	\$17.45	\$12.43	\$17.61	\$21.83

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
53-3022	Bus Drivers, School	\$9.02	\$12.71	\$10.16	\$12.67	\$15.12
13-0000	Business and Financial Operations Occupations	\$13.07	\$21.49	\$15.39	\$19.99	\$26.42
13-1199	Business Operations Specialists, All Other	\$14.33	\$23.50	\$17.81	\$22.91	\$29.34
51-3021	Butchers and Meat Cutters	\$6.93	\$10.15	\$7.20	\$8.90	\$11.00
51-7011	Cabinetmakers and Bench Carpenters	\$6.94	\$9.97	\$7.17	\$8.76	\$11.12
27-4031	Camera Operators, Television, Video, and Motion Picture	\$6.75*	\$12.77	\$6.92	\$10.24	\$14.22
29-2031	Cardiovascular Technologists and Technicians	\$12.32	\$17.73	\$13.43	\$16.80	\$21.64
43-5011	Cargo and Freight Agents	\$8.35	\$12.54	\$9.15	\$10.43	\$13.33
47-2031	Carpenters	\$10.48	\$17.43	\$12.16	\$17.05	\$21.94
47-2041	Carpet Installers	\$10.10	\$11.05	\$9.75	\$10.47	\$11.20
41-2011	Cashiers	\$6.75*	\$8.32	\$6.75*	\$7.35	\$8.71
47-2051	Cement Masons and Concrete Finishers	\$10.47	\$16.31	\$11.99	\$15.94	\$19.75
35-1011	Chefs and Head Cooks	\$8.54	\$13.75	\$9.60	\$13.42	\$18.06
19-4031	Chemical Technicians	\$9.41	\$13.87	\$10.47	\$13.37	\$16.86
19-2031	Chemists	\$10.56	\$19.86	\$12.41	\$18.89	\$25.97
11-1011	Chief Executives	\$32.15	\$51.81	\$37.66	\$53.77	\$69.35
39-9011	Child Care Workers	\$6.91	\$8.61	\$7.26	\$8.45	\$9.94
27-2032	Choreographers	\$10.07	\$12.98	\$11.48	\$12.65	\$13.83
17-3022	Civil Engineering Technicians	\$15.24	\$20.57	\$17.51	\$20.71	\$23.87
17-2051	Civil Engineers	\$23.11	\$29.41	\$24.40	\$28.53	\$34.29

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
13-1031	Claims Adjusters, Examiners, and Investigators	\$11.86	\$20.67	\$13.38	\$19.68	\$27.04
53-7061	Cleaners of Vehicles and Equipment	\$6.75*	\$8.05	\$6.75*	\$7.31	\$8.55
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	\$6.86	\$9.54	\$7.07	\$9.52	\$10.93
21-2011	Clergy	\$6.75*	\$17.63	\$6.75*	\$18.74	\$24.15
19-3031	Clinical, Counseling, and School Psychologists	\$25.52	\$34.47	\$28.91	\$34.76	\$40.94
27-2022	Coaches and Scouts	(2)	(2)	(2)	(2)	(2)
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	\$8.02	\$11.17	\$8.63	\$10.85	\$13.41
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	\$11.51	\$15.80	\$12.46	\$15.27	\$19.51
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	\$6.75*	\$6.97	\$6.75*	\$6.89	\$7.49
27-1021	Commercial and Industrial Designers	\$15.14	\$23.23	\$16.82	\$21.40	\$28.51
53-2012	Commercial Pilots	(2)	(2)	(2)	(2)	(2)
43-2099	Communications Equipment Operators, All Other	\$14.87	\$17.22	\$15.89	\$17.60	\$19.18
21-0000	Community and Social Services Occupations	\$9.67	\$19.86	\$11.60	\$18.12	\$26.08
13-1072	Compensation, Benefits, and Job Analysis Specialists	\$15.37	\$22.54	\$17.00	\$23.00	\$26.80
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportati	\$13.97	\$19.97	\$14.97	\$17.88	\$23.46
11-3021	Computer and Information Systems Managers	\$25.18	\$37.91	\$29.36	\$35.56	\$44.33
15-0000	Computer and Mathematical Occupations	\$12.81	\$22.43	\$15.22	\$22.75	\$28.22
43-9011	Computer Operators	\$9.67	\$15.46	\$10.92	\$15.45	\$19.01
15-1021	Computer Programmers	\$16.63	\$26.24	\$19.84	\$26.01	\$32.93



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
15-1031	Computer Software Engineers, Applications	\$18.49	\$28.37	\$21.37	\$27.40	\$34.32
15-1032	Computer Software Engineers, Systems Software	\$17.34	\$27.26	\$18.67	\$25.27	\$35.92
15-1041	Computer Support Specialists	\$10.81	\$17.74	\$11.77	\$15.85	\$22.74
15-1051	Computer Systems Analysts	\$21.34	\$27.07	\$23.79	\$27.08	\$31.27
49-2011	Computer, Automated Teller, and Office Machine Repairers	\$10.36	\$14.89	\$12.01	\$14.89	\$17.94
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	\$7.59	\$12.22	\$8.47	\$12.13	\$15.60
39-6012	Concierges	\$8.73	\$11.55	\$9.19	\$10.77	\$12.77
19-1031	Conservation Scientists	\$18.83	\$24.53	\$20.49	\$24.28	\$28.05
47-0000	Construction and Extraction Occupations	\$9.41	\$16.87	\$10.81	\$15.60	\$21.94
47-2061	Construction Laborers	\$8.53	\$13.31	\$9.17	\$11.08	\$16.67
11-9021	Construction Managers	\$21.14	\$31.51	\$24.25	\$31.33	\$38.56
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	\$18.09	\$24.29	\$22.38	\$25.74	\$28.46
53-7011	Conveyor Operators and Tenders	\$8.98	\$10.64	\$9.27	\$10.48	\$12.15
35-2011	Cooks, Fast Food	\$6.75*	\$7.77	\$6.91	\$7.52	\$8.48
35-2012	Cooks, Institution and Cafeteria	\$7.33	\$9.49	\$7.79	\$9.33	\$10.91
35-2014	Cooks, Restaurant	\$7.34	\$8.17	\$7.36	\$8.00	\$8.66
35-2015	Cooks, Short Order	\$6.97	\$8.56	\$7.36	\$8.35	\$10.00
51-9193	Cooling and Freezing Equipment Operators and Tenders	\$11.00	\$13.78	\$11.61	\$13.27	\$16.31
43-4021	Correspondence Clerks	\$11.16	\$13.90	\$12.04	\$13.70	\$15.06
13-1051	Cost Estimators	\$16.48	\$24.86	\$18.74	\$23.23	\$30.32

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
41-2021	Counter and Rental Clerks	\$7.30	\$10.49	\$7.50	\$8.55	\$11.60
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	\$6.85	\$8.21	\$7.12	\$7.83	\$8.53
43-5021	Couriers and Messengers	\$6.75*	\$8.53	\$7.00	\$7.86	\$9.26
53-7021	Crane and Tower Operators	\$10.62	\$18.55	\$11.77	\$13.63	\$29.67
13-2041	Credit Analysts	\$17.36	\$27.12	\$18.80	\$21.73	\$30.65
43-4041	Credit Authorizers, Checkers, and Clerks	\$8.09	\$16.44	\$8.69	\$12.49	\$17.37
33-9091	Crossing Guards	\$6.75*	\$8.02	\$6.75*	\$7.15	\$9.97
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	\$7.65	\$10.37	\$7.76	\$8.91	\$12.67
43-4051	Customer Service Representatives	\$9.27	\$14.75	\$10.09	\$12.71	\$18.38
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	\$7.54	\$10.48	\$7.73	\$8.84	\$12.06
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	\$9.06	\$11.72	\$9.59	\$11.37	\$13.79
43-9021	Data Entry Keyers	\$8.49	\$11.37	\$9.35	\$11.63	\$13.13
15-1061	Database Administrators	\$17.65	\$27.78	\$20.10	\$25.73	\$37.21
41-9011	Demonstrators and Product Promoters	\$7.24	\$9.68	\$7.54	\$8.62	\$10.15
31-9091	Dental Assistants	\$8.55	\$12.25	\$9.54	\$12.08	\$15.03
29-2021	Dental Hygienists	\$23.75	\$29.12	\$26.29	\$30.46	\$33.33
51-9081	Dental Laboratory Technicians	\$8.20	\$12.54	\$8.95	\$11.89	\$15.88
29-1020	Dentists	\$48.85	(3)	\$54.60	\$67.50	>\$70.00
43-9031	Desktop Publishers	\$11.08	\$16.76	\$12.48	\$16.09	\$21.22

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
33-3021	Detectives and Criminal Investigators	\$21.67	\$29.50	\$25.97	\$31.34	\$34.63
29-2032	Diagnostic Medical Sonographers	\$19.26	\$25.92	\$20.78	\$24.15	\$31.69
29-2051	Dietetic Technicians	\$9.20	\$11.84	\$9.50	\$10.65	\$13.88
29-1031	Dietitians and Nutritionists	\$17.71	\$23.70	\$20.72	\$24.75	\$27.51
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	\$6.75*	\$6.98	\$6.75*	\$6.84	\$7.81
21-2021	Directors, Religious Activities and Education	\$6.86	\$11.17	\$7.07	\$12.35	\$14.07
35-9021	Dishwashers	\$6.75*	\$6.97	\$6.75*	\$6.86	\$7.72
43-5032	Dispatchers, Except Police, Fire, and Ambulance	\$9.04	\$15.17	\$10.01	\$14.83	\$19.66
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	\$9.05	\$13.76	\$9.69	\$11.72	\$16.99
53-3031	Driver/Sales Workers	\$6.76	\$12.61	\$7.26	\$10.60	\$16.30
47-2081	Drywall and Ceiling Tile Installers	\$9.39	\$15.48	\$10.91	\$13.28	\$20.03
47-5021	Earth Drillers, Except Oil and Gas	\$14.71	\$18.34	\$17.95	\$19.58	\$21.17
27-3041	Editors	\$10.73	\$19.49	\$12.09	\$16.43	\$25.56
11-9032	Education Administrators, Elementary and Secondary School	(2)	(2)	(2)	(2)	(2)
11-9031	Education Administrators, Preschool and Child Care Center/Program	\$10.84	\$19.20	\$12.67	\$19.13	\$21.41
25-0000	Education, Training, and Library Occupations	\$10.68	\$20.44	\$12.90	\$19.89	\$26.49
25-9199	Education, Training, and Library Workers, All Other	\$7.17	\$10.01	\$7.38	\$8.84	\$11.38
21-1012	Educational, Vocational, and School Counselors	\$12.86	\$27.95	\$16.12	\$30.15	\$36.79
49-2092	Electric Motor, Power Tool, and Related Repairers	\$11.16	\$17.58	\$12.36	\$16.28	\$22.63
17-3023	Electrical and Electronic Engineering Technicians	\$16.00	\$22.58	\$17.92	\$21.98	\$26.59



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
17-3012	Electrical and Electronics Drafters	\$12.03	\$15.31	\$12.34	\$14.26	\$17.39
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	\$11.50	\$17.49	\$13.07	\$18.34	\$21.09
17-2071	Electrical Engineers	\$22.79	\$28.29	\$23.94	\$27.48	\$32.81
47-2111	Electricians	\$11.29	\$18.14	\$12.53	\$16.37	\$25.03
17-3024	Electro-Mechanical Technicians	\$12.67	\$17.05	\$15.67	\$18.39	\$20.08
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	\$6.75*	\$10.59	\$7.02	\$9.90	\$11.10
25-2021	Elementary School Teachers, Except Special Education	(2)	(2)	(2)	(2)	(2)
39-4011	Embalmers	\$14.11	\$19.01	\$18.11	\$20.07	\$21.93
13-1061	Emergency Management Specialists	\$20.49	\$26.22	\$21.59	\$25.56	\$29.86
13-1071	Employment, Recruitment, and Placement Specialists	\$10.27	\$18.82	\$11.34	\$16.72	\$24.61
11-9041	Engineering Managers	\$26.85	\$38.17	\$29.81	\$35.93	\$45.00
17-2199	Engineers, All Other	\$20.56	\$31.11	\$23.16	\$31.69	\$38.51
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	(2)	(2)	(2)	(2)	(2)
17-2081	Environmental Engineers	\$19.03	\$26.73	\$20.36	\$25.29	\$32.45
19-4091	Environmental Science and Protection Technicians, Including Health	\$8.01	\$14.54	\$8.23	\$11.56	\$21.19
19-2041	Environmental Scientists and Specialists, Including Health	\$17.97	\$25.51	\$20.43	\$25.33	\$29.33
53-7032	Excavating and Loading Machine and Dragline Operators	\$12.31	\$14.38	\$12.35	\$13.55	\$15.71
43-6011	Executive Secretaries and Administrative Assistants	\$12.41	\$16.81	\$13.96	\$16.08	\$18.97
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	\$6.85	\$10.82	\$6.82	\$7.26	\$15.71

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	\$9.12	\$13.91	\$10.21	\$13.17	\$17.54
29-1062	Family and General Practitioners	\$39.89	\$53.37	\$45.32	\$53.12	\$68.52
49-3041	Farm Equipment Mechanics	\$9.82	\$14.21	\$11.22	\$14.11	\$16.95
45-1012	Farm Labor Contractors	\$7.83	\$16.16	\$8.55	\$13.67	\$20.43
11-9011	Farm, Ranch, and Other Agricultural Managers	\$15.66	\$24.96	\$17.55	\$21.90	\$33.60
45-0000	Farming, Fishing, and Forestry Occupations	\$6.75*	\$7.41	\$6.75*	\$7.01	\$7.73
45-9099	Farming, Fishing, and Forestry Workers, All Other	\$6.75*	\$8.57	\$6.76	\$7.20	\$9.06
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	\$6.75*	\$6.94	\$6.75*	\$6.93	\$7.42
45-2093	Farmworkers, Farm and Ranch Animals	\$6.75*	\$6.75*	\$6.75*	\$6.75*	\$7.16
43-4071	File Clerks	\$6.75*	\$8.00	\$6.85	\$7.66	\$8.57
27-4032	Film and Video Editors	\$9.04	\$14.53	\$10.18	\$14.40	\$17.41
13-2051	Financial Analysts	\$18.16	\$29.15	\$21.25	\$28.21	\$35.18
13-2061	Financial Examiners	\$18.89	\$26.82	\$20.14	\$23.74	\$34.59
11-3031	Financial Managers	\$21.34	\$32.84	\$23.98	\$29.47	\$39.79
13-2099	Financial Specialists, All Other	\$11.29	\$18.63	\$13.11	\$18.13	\$21.98
33-2011	Fire Fighters	\$15.21	\$21.66	\$17.13	\$21.82	\$26.37
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	\$16.86	\$25.98	\$19.41	\$25.01	\$30.81
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	\$7.38	\$13.90	\$8.33	\$11.17	\$17.10
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	\$24.80	\$30.78	\$25.54	\$30.58	\$34.90

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	\$8.80	\$12.93	\$9.68	\$11.97	\$15.61
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	\$13.75	\$19.91	\$15.48	\$19.40	\$22.88
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	\$9.74	\$14.12	\$11.07	\$13.47	\$17.01
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	\$11.57	\$15.94	\$11.88	\$13.24	\$16.89
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	\$16.07	\$24.87	\$18.02	\$23.34	\$29.85
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	\$17.93	\$30.68	\$20.88	\$26.85	\$36.43
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	\$12.65	\$20.08	\$14.66	\$19.94	\$24.89
39-1021	First-Line Supervisors/Managers of Personal Service Workers	\$10.27	\$13.37	\$10.75	\$12.05	\$13.74
33-1012	First-Line Supervisors/Managers of Police and Detectives	\$28.30	\$34.97	\$31.41	\$35.46	\$40.11
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	\$13.08	\$19.52	\$14.53	\$18.21	\$23.09
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	\$10.11	\$17.25	\$11.17	\$14.46	\$20.19
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle	\$12.73	\$20.03	\$14.04	\$18.07	\$23.43
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	\$14.53	\$22.39	\$17.97	\$24.32	\$27.02
33-3031	Fish and Game Wardens	\$19.99	\$24.66	\$21.20	\$24.59	\$27.85
39-9031	Fitness Trainers and Aerobics Instructors	\$8.87	\$17.99	\$10.58	\$19.40	\$24.04
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	\$13.46	\$18.22	\$14.64	\$17.21	\$21.66
27-1023	Floral Designers	\$7.84	\$10.96	\$7.88	\$8.80	\$15.23
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	\$7.71	\$13.14	\$8.14	\$10.10	\$19.62



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
51-3092	Food Batchmakers	\$8.80	\$14.44	\$9.51	\$14.91	\$19.66
35-9099	Food Preparation and Serving Related Workers, All Other	\$6.75*	\$8.45	\$6.75*	\$7.16	\$9.03
35-0000	Food Preparation and Serving-Related Occupations	\$6.75*	\$7.98	\$6.75*	\$7.34	\$8.57
35-2021	Food Preparation Workers	\$7.18	\$8.92	\$7.59	\$8.91	\$10.21
35-3041	Food Servers, Nonrestaurant	\$7.15	\$8.56	\$7.31	\$8.25	\$9.85
11-9051	Food Service Managers	\$14.55	\$20.21	\$15.17	\$16.97	\$20.35
19-4093	Forest and Conservation Technicians	\$12.93	\$17.14	\$14.12	\$17.16	\$20.05
19-1032	Foresters	\$21.74	\$27.28	\$22.80	\$26.43	\$31.90
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	\$9.07	\$12.27	\$10.15	\$12.49	\$14.26
39-4021	Funeral Attendants	\$9.52	\$13.23	\$10.56	\$12.37	\$13.99
11-9061	Funeral Directors	\$18.47	\$31.92	\$21.24	\$27.00	\$50.63
51-7021	Furniture Finishers	\$7.41	\$9.23	\$7.62	\$8.51	\$10.51
11-1021	General and Operations Managers	\$21.61	\$37.68	\$24.98	\$33.36	\$47.80
19-2042	Geoscientists, Except Hydrologists and Geographers	\$18.08	\$28.47	\$21.00	\$28.32	\$33.11
47-2121	Glaziers	\$8.29	\$16.14	\$8.82	\$13.00	\$25.41
45-2041	Graders and Sorters, Agricultural Products	\$6.75*	\$7.01	\$6.75*	\$6.76	\$7.38
25-1191	Graduate Teaching Assistants	(2)	(2)	(2)	(2)	(2)
27-1024	Graphic Designers	\$10.19	\$16.19	\$11.22	\$15.58	\$19.21
51-9022	Grinding and Polishing Workers, Hand	\$8.13	\$10.43	\$8.57	\$10.11	\$11.96
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Me	\$7.33	\$9.84	\$7.60	\$8.68	\$12.32

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
39-5012	Hairdressers, Hairstylists, and Cosmetologists	\$7.27	\$10.47	\$7.75	\$8.84	\$12.68
47-4041	Hazardous Materials Removal Workers	\$7.19	\$13.34	\$8.09	\$13.54	\$16.78
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	\$23.23	\$28.38	\$25.05	\$28.98	\$32.61
21-1091	Health Educators	\$12.25	\$18.79	\$13.32	\$14.99	\$20.47
29-0000	Healthcare Practitioners and Technical Occupations	\$13.03	\$26.17	\$15.91	\$23.64	\$32.43
31-0000	Healthcare Support Occupations	\$7.75	\$10.23	\$8.17	\$9.49	\$11.65
31-9099	Healthcare Support Workers, All Other	\$8.22	\$10.88	\$8.68	\$10.17	\$12.35
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	\$13.11	\$19.20	\$15.41	\$18.55	\$21.45
47-3019	Helpers, Construction Trades, All Other	\$7.80	\$11.12	\$7.98	\$8.75	\$15.04
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	\$8.86	\$11.38	\$9.20	\$10.54	\$13.74
47-3012	Helpers--Carpenters	\$7.04	\$8.08	\$7.14	\$7.82	\$8.63
47-3013	Helpers--Electricians	\$7.28	\$8.78	\$7.48	\$8.22	\$9.02
49-9098	Helpers--Installation, Maintenance, and Repair Workers	\$6.75*	\$10.41	\$6.75*	\$9.21	\$13.26
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	\$7.59	\$10.60	\$7.57	\$8.31	\$10.78
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	\$7.23	\$10.10	\$7.54	\$9.55	\$11.64
51-9198	Helpers--Production Workers	\$6.88	\$9.72	\$7.37	\$8.87	\$11.10
47-3016	Helpers--Roofers	\$7.96	\$8.79	\$7.78	\$8.38	\$9.24
49-9031	Home Appliance Repairers	\$9.29	\$13.25	\$10.82	\$13.12	\$16.07
31-1011	Home Health Aides	\$7.44	\$9.97	\$7.71	\$8.97	\$11.41

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	\$6.75*	\$7.00	\$6.75*	\$6.98	\$7.74
43-4081	Hotel, Motel, and Resort Desk Clerks	\$7.02	\$8.15	\$7.30	\$8.06	\$8.85
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	\$11.43	\$16.11	\$13.33	\$16.07	\$19.29
11-3040	Human Resources Managers	\$18.84	\$28.43	\$21.48	\$26.89	\$34.02
17-3026	Industrial Engineering Technicians	\$14.61	\$22.91	\$16.72	\$22.58	\$28.08
17-2112	Industrial Engineers	\$17.95	\$26.80	\$21.21	\$27.16	\$32.87
49-9041	Industrial Machinery Mechanics	\$14.50	\$19.12	\$16.22	\$19.38	\$21.78
11-3051	Industrial Production Managers	\$22.85	\$32.08	\$25.98	\$32.12	\$38.09
53-7051	Industrial Truck and Tractor Operators	\$7.46	\$11.40	\$8.30	\$10.73	\$14.27
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	\$8.76	\$15.23	\$10.26	\$13.34	\$17.78
49-0000	Installation, Maintenance, and Repair Occupations	\$9.89	\$17.02	\$11.40	\$16.43	\$21.36
49-9099	Installation, Maintenance, and Repair Workers, All Other	\$11.17	\$17.67	\$12.89	\$17.84	\$21.58
25-9031	Instructional Coordinators	\$18.48	\$33.90	\$24.08	\$35.78	\$45.72
43-9041	Insurance Claims and Policy Processing Clerks	\$11.11	\$15.47	\$12.17	\$14.79	\$17.48
41-3021	Insurance Sales Agents	\$13.56	\$28.18	\$16.41	\$24.23	\$38.83
27-1025	Interior Designers	\$20.02	\$24.12	\$23.10	\$25.20	\$27.34
29-1063	Internists, General	\$50.04	(3)	\$50.82	\$56.41	>\$70.00
43-4111	Interviewers, Except Eligibility and Loan	\$8.22	\$14.60	\$9.31	\$12.76	\$20.66
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	\$6.75*	\$8.99	\$7.05	\$8.04	\$10.44
51-9071	Jewelers and Precious Stone and Metal Workers	\$13.65	\$18.41	\$15.27	\$19.32	\$21.46



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
51-5021	Job Printers	\$9.38	\$12.51	\$10.36	\$11.78	\$13.53
23-1023	Judges, Magistrate Judges, and Magistrates	\$62.40	\$63.52	\$60.55	\$64.78	\$69.01
25-2012	Kindergarten Teachers, Except Special Education	(2)	(2)	(2)	(2)	(2)
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	\$6.75*	\$8.76	\$6.94	\$8.10	\$10.07
17-1012	Landscape Architects	\$15.58	\$25.36	\$17.92	\$25.22	\$32.49
37-3011	Landscaping and Groundskeeping Workers	\$6.75*	\$9.83	\$7.02	\$8.69	\$11.41
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	\$9.85	\$14.54	\$10.94	\$14.38	\$16.78
51-6011	Laundry and Dry-Cleaning Workers	\$6.95	\$8.13	\$7.24	\$8.06	\$8.92
23-2092	Law Clerks	\$10.84	\$16.54	\$11.81	\$14.44	\$18.73
23-1011	Lawyers	\$29.06	\$43.73	\$33.78	\$42.50	\$53.83
23-0000	Legal Occupations	\$16.22	\$28.53	\$17.90	\$21.20	\$37.68
43-6012	Legal Secretaries	\$11.86	\$16.47	\$13.19	\$16.86	\$19.90
11-1031	Legislators	\$13.84	\$19.57	\$15.82	\$18.90	\$21.72
25-4021	Librarians	\$15.06	\$23.63	\$16.75	\$23.44	\$28.45
43-4121	Library Assistants, Clerical	\$9.85	\$12.36	\$11.12	\$12.54	\$13.89
25-4031	Library Technicians	\$9.78	\$14.29	\$11.45	\$14.62	\$17.59
29-2061	Licensed Practical and Licensed Vocational Nurses	\$12.92	\$16.09	\$14.14	\$15.88	\$17.92
19-0000	Life, Physical, and Social Science Occupations	\$12.62	\$24.63	\$15.65	\$23.55	\$32.70
43-4131	Loan Interviewers and Clerks	\$10.55	\$14.45	\$11.53	\$13.75	\$17.04
13-2072	Loan Officers	\$12.97	\$21.68	\$15.51	\$19.65	\$26.39

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	\$7.42	\$8.28	\$7.48	\$8.13	\$8.89
49-9094	Locksmiths and Safe Repairers	\$10.69	\$15.02	\$11.52	\$13.13	\$18.30
11-9081	Lodging Managers	\$12.15	\$16.71	\$13.06	\$15.58	\$20.29
53-7063	Machine Feeders and Offbearers	\$7.22	\$9.58	\$7.55	\$8.72	\$10.35
51-4041	Machinists	\$8.02	\$10.82	\$8.33	\$9.82	\$11.89
37-2012	Maids and Housekeeping Cleaners	\$6.75*	\$7.26	\$6.75*	\$7.10	\$8.08
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	\$8.43	\$9.97	\$8.89	\$9.86	\$10.85
49-9042	Maintenance and Repair Workers, General	\$8.55	\$13.60	\$9.44	\$12.33	\$16.98
49-9043	Maintenance Workers, Machinery	\$11.61	\$15.16	\$12.59	\$14.42	\$17.55
13-1111	Management Analysts	\$20.35	\$26.94	\$21.64	\$26.14	\$31.86
11-0000	Management Occupations	\$19.09	\$34.35	\$22.86	\$31.37	\$43.49
11-9199	Managers, All Other	\$19.57	\$29.75	\$21.77	\$27.20	\$36.53
19-3021	Market Research Analysts	\$14.19	\$24.52	\$16.00	\$21.68	\$29.32
11-2021	Marketing Managers	\$20.98	\$33.21	\$24.76	\$31.40	\$38.85
21-1013	Marriage and Family Therapists	\$16.88	\$21.08	\$17.99	\$19.85	\$21.93
31-9011	Massage Therapists	\$10.02	\$14.18	\$11.12	\$12.52	\$14.89
53-7199	Material Moving Workers, All Other	\$11.35	\$20.72	\$15.74	\$24.11	\$27.07
17-2131	Materials Engineers	\$25.84	\$34.17	\$27.53	\$33.87	\$40.83
17-3013	Mechanical Drafters	\$12.93	\$18.55	\$14.53	\$18.61	\$21.69
17-3027	Mechanical Engineering Technicians	\$12.90	\$18.45	\$13.91	\$15.76	\$21.92

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
17-2141	Mechanical Engineers	\$16.93	\$24.83	\$18.01	\$24.53	\$28.67
27-4099	Media and Communication Equipment Workers, All Other	\$10.68	\$20.51	\$12.67	\$20.53	\$28.28
29-2012	Medical and Clinical Laboratory Technicians	\$11.29	\$15.49	\$11.97	\$13.67	\$17.51
29-2011	Medical and Clinical Laboratory Technologists	\$20.64	\$25.10	\$22.76	\$25.35	\$27.98
11-9111	Medical and Health Services Managers	\$25.32	\$41.20	\$29.25	\$42.32	\$53.22
31-9092	Medical Assistants	\$8.07	\$10.37	\$8.62	\$9.91	\$11.55
31-9093	Medical Equipment Preparers	\$6.75*	\$10.84	\$7.46	\$10.79	\$13.35
49-9062	Medical Equipment Repairers	\$13.27	\$19.75	\$14.27	\$19.79	\$24.32
29-2071	Medical Records and Health Information Technicians	\$8.05	\$12.29	\$9.05	\$11.46	\$14.82
43-6013	Medical Secretaries	\$7.73	\$10.80	\$8.19	\$9.95	\$13.28
31-9094	Medical Transcriptionists	\$12.13	\$14.46	\$12.69	\$14.31	\$16.19
13-1121	Meeting and Convention Planners	\$15.68	\$21.72	\$16.85	\$19.60	\$22.60
27-1026	Merchandise Displayers and Window Trimmers	\$6.85	\$8.68	\$6.93	\$7.73	\$10.20
43-5041	Meter Readers, Utilities	\$16.85	\$20.67	\$18.54	\$20.87	\$22.95
19-1022	Microbiologists	\$20.44	\$28.11	\$23.75	\$28.81	\$33.70
25-2022	Middle School Teachers, Except Special and Vocational Education	(2)	(2)	(2)	(2)	(2)
49-9044	Millwrights	\$11.43	\$18.64	\$13.46	\$16.85	\$25.59
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	\$7.90	\$12.37	\$8.61	\$11.68	\$15.56
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	\$15.76	\$19.62	\$17.58	\$19.78	\$21.75
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plasti	\$7.01	\$10.17	\$7.72	\$9.70	\$11.37



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
39-3021	Motion Picture Projectionists	\$6.75*	\$9.91	\$7.01	\$8.55	\$12.01
53-3099	Motor Vehicle Operators, All Other	\$6.75*	\$11.94	\$7.09	\$8.41	\$17.21
49-3052	Motorcycle Mechanics	\$10.09	\$14.73	\$10.73	\$14.89	\$18.56
27-1014	Multi-Media Artists and Animators	\$14.20	\$19.52	\$15.31	\$17.82	\$22.28
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	\$7.86	\$10.34	\$8.06	\$9.26	\$11.61
27-2041	Music Directors and Composers	(2)	(2)	(2)	(2)	(2)
11-9121	Natural Sciences Managers	\$18.67	\$33.72	\$20.14	\$25.74	\$44.80
15-1071	Network and Computer Systems Administrators	\$15.52	\$21.81	\$16.84	\$20.58	\$26.60
15-1081	Network Systems and Data Communications Analysts	\$12.00	\$19.59	\$12.59	\$17.36	\$25.39
43-4141	New Accounts Clerks	\$9.79	\$11.87	\$9.81	\$10.80	\$13.89
27-3020	News Analysts, Reporters and Correspondents	\$10.44	\$20.31	\$11.75	\$18.22	\$26.82
39-2021	Nonfarm Animal Caretakers	\$6.77	\$9.81	\$7.29	\$9.07	\$11.11
51-4012	Numerical Tool and Process Control Programmers	\$19.81	\$26.16	\$19.93	\$22.07	\$34.75
31-1012	Nursing Aides, Orderlies, and Attendants	\$7.66	\$9.26	\$7.86	\$8.90	\$10.47
29-9010	Occupational Health and Safety Specialists and Technicians	\$12.89	\$20.61	\$16.91	\$20.44	\$25.93
31-2012	Occupational Therapist Aides	\$7.72	\$13.01	\$8.10	\$9.98	\$13.46
31-2011	Occupational Therapist Assistants	\$15.52	\$18.37	\$15.99	\$18.38	\$20.76
29-1122	Occupational Therapists	\$25.44	\$33.41	\$27.82	\$31.65	\$36.69
43-0000	Office and Administrative Support Occupations	\$8.40	\$13.08	\$9.29	\$12.05	\$15.75
43-9061	Office Clerks, General	\$8.04	\$11.63	\$8.93	\$11.32	\$13.98

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
43-9071	Office Machine Operators, Except Computer	\$8.15	\$11.69	\$9.00	\$11.76	\$13.91
47-2073	Operating Engineers and Other Construction Equipment Operators	\$14.23	\$22.40	\$16.40	\$21.34	\$29.46
15-2031	Operations Research Analysts	\$17.09	\$23.16	\$18.62	\$22.81	\$27.19
29-2081	Opticians, Dispensing	\$11.85	\$13.76	\$11.76	\$12.84	\$15.09
29-1041	Optometrists	\$23.84	\$33.44	\$25.29	\$28.33	\$44.87
43-4151	Order Clerks	\$8.31	\$12.09	\$9.23	\$10.85	\$14.20
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	\$9.84	\$12.44	\$9.83	\$10.78	\$15.38
51-9111	Packaging and Filling Machine Operators and Tenders	\$7.54	\$12.09	\$8.32	\$10.64	\$15.65
53-7064	Packers and Packagers, Hand	\$6.75*	\$7.61	\$6.75*	\$7.17	\$8.17
47-2141	Painters, Construction and Maintenance	\$8.47	\$13.43	\$9.38	\$11.97	\$16.82
51-9122	Painters, Transportation Equipment	\$9.15	\$14.03	\$9.96	\$11.65	\$14.33
51-9123	Painting, Coating, and Decorating Workers	\$7.02	\$8.76	\$7.44	\$8.22	\$9.12
51-9196	Paper Goods Machine Setters, Operators, and Tenders	\$8.55	\$14.01	\$9.29	\$13.57	\$18.30
23-2011	Paralegals and Legal Assistants	\$17.44	\$21.23	\$18.21	\$20.47	\$23.67
33-3041	Parking Enforcement Workers	\$9.86	\$12.46	\$10.18	\$12.07	\$14.48
53-6021	Parking Lot Attendants	\$6.75*	\$7.46	\$6.87	\$7.47	\$8.24
41-2022	Parts Salespersons	\$7.88	\$12.30	\$8.96	\$11.83	\$14.39
47-2071	Paving, Surfacing, and Tamping Equipment Operators	\$14.67	\$17.76	\$15.14	\$16.79	\$20.19
43-3051	Payroll and Timekeeping Clerks	\$9.84	\$13.63	\$11.11	\$13.17	\$16.01
29-1065	Pediatricians, General	\$22.80	\$44.68	\$22.48	\$50.76	\$56.50

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
39-9021	Personal and Home Care Aides	\$6.75*	\$7.79	\$7.02	\$7.72	\$8.41
39-0000	Personal Care and Service Occupations	\$6.75*	\$9.38	\$7.09	\$8.23	\$10.29
39-9099	Personal Care and Service Workers, All Other	\$6.75*	\$9.21	\$6.75*	\$7.05	\$12.56
13-2052	Personal Financial Advisors	\$15.66	\$25.78	\$16.13	\$20.83	\$29.74
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	\$7.99	\$12.84	\$8.60	\$10.14	\$15.36
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	\$21.10	\$26.21	\$23.12	\$26.23	\$29.03
29-1051	Pharmacists	\$34.19	\$42.39	\$38.34	\$43.03	\$47.82
31-9095	Pharmacy Aides	\$7.71	\$9.51	\$7.82	\$8.82	\$11.02
29-2052	Pharmacy Technicians	\$11.57	\$14.44	\$12.37	\$14.12	\$16.10
27-4021	Photographers	\$7.93	\$12.17	\$8.46	\$9.90	\$11.74
51-9132	Photographic Processing Machine Operators	\$7.62	\$9.15	\$7.70	\$8.57	\$10.38
19-2099	Physical Scientists, All Other	\$27.59	\$29.72	\$28.39	\$30.59	\$32.81
31-2022	Physical Therapist Aides	\$9.13	\$10.46	\$9.50	\$10.39	\$11.36
31-2021	Physical Therapist Assistants	\$16.45	\$23.71	\$18.52	\$22.45	\$26.91
29-1123	Physical Therapists	\$23.75	\$34.96	\$26.10	\$32.34	\$43.29
29-1071	Physician Assistants	\$28.37	\$34.58	\$31.61	\$35.85	\$40.19
47-2151	Pipelayers	\$11.35	\$19.89	\$12.62	\$20.72	\$26.70
51-8099	Plant and System Operators, All Other	\$14.61	\$19.60	\$15.41	\$18.00	\$22.36
47-2161	Plasterers and Stucco Masons	\$9.50	\$15.38	\$12.75	\$15.90	\$18.75
47-2152	Plumbers, Pipefitters, and Steamfitters	\$11.89	\$19.96	\$13.75	\$17.54	\$26.62



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
29-1081	Podiatrists	\$40.36	\$46.47	\$41.40	\$46.50	\$52.88
33-3051	Police and Sheriff's Patrol Officers	\$21.77	\$29.27	\$28.32	\$31.88	\$34.49
43-5031	Police, Fire, and Ambulance Dispatchers	\$11.85	\$16.74	\$12.91	\$14.95	\$20.89
43-5051	Postal Service Clerks	\$16.75	\$18.60	\$17.68	\$19.12	\$20.58
43-5052	Postal Service Mail Carriers	\$16.89	\$18.90	\$17.76	\$19.28	\$20.80
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	\$10.84	\$16.14	\$12.31	\$17.80	\$19.91
51-8013	Power Plant Operators	\$19.46	\$22.12	\$19.66	\$21.94	\$24.97
49-9069	Precision Instrument and Equipment Repairers, All Other	\$15.88	\$22.84	\$17.11	\$25.01	\$27.49
51-5022	Prepress Technicians and Workers	\$10.22	\$15.42	\$11.22	\$13.90	\$19.09
25-2011	Preschool Teachers, Except Special Education	\$6.92	\$8.81	\$7.18	\$8.15	\$9.96
51-6021	Pressers, Textile, Garment, and Related Materials	\$7.33	\$8.19	\$7.51	\$8.22	\$8.99
51-5023	Printing Machine Operators	\$9.13	\$15.10	\$10.36	\$14.64	\$19.45
33-9021	Private Detectives and Investigators	\$7.15	\$9.25	\$7.30	\$8.75	\$10.43
43-3061	Procurement Clerks	\$9.19	\$14.18	\$10.29	\$13.70	\$16.94
27-2012	Producers and Directors	(2)	(2)	(2)	(2)	(2)
51-0000	Production Occupations	\$7.61	\$12.34	\$8.31	\$10.66	\$15.27
51-9199	Production Workers, All Other	\$7.16	\$11.73	\$7.87	\$10.61	\$15.03
43-5061	Production, Planning, and Expediting Clerks	\$10.48	\$16.77	\$11.45	\$16.47	\$20.92
11-9141	Property, Real Estate, and Community Association Managers	\$6.75*	\$13.05	\$6.80	\$9.64	\$16.60
33-0000	Protective Service Occupations	\$8.80	\$20.96	\$10.52	\$22.84	\$29.70

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
29-2053	Psychiatric Technicians	\$14.26	\$17.17	\$15.05	\$17.01	\$19.83
29-1066	Psychiatrists	\$20.53	\$49.45	\$31.64	\$60.86	\$66.47
11-2031	Public Relations Managers	\$18.65	\$34.24	\$21.18	\$32.12	\$46.89
27-3031	Public Relations Specialists	\$11.00	\$20.74	\$11.84	\$16.13	\$24.13
13-1021	Purchasing Agents and Buyers, Farm Products	\$9.90	\$22.86	\$12.03	\$16.22	\$29.37
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	\$12.01	\$18.32	\$13.51	\$17.69	\$21.64
11-3061	Purchasing Managers	\$17.18	\$27.39	\$20.12	\$26.36	\$33.45
29-2034	Radiologic Technologists and Technicians	\$15.40	\$20.63	\$16.89	\$20.21	\$24.52
43-4171	Receptionists and Information Clerks	\$7.71	\$9.89	\$8.34	\$9.70	\$10.98
29-1125	Recreational Therapists	\$8.96	\$16.04	\$8.90	\$15.55	\$21.50
49-3092	Recreational Vehicle Service Technicians	\$11.06	\$15.75	\$12.52	\$15.93	\$19.06
29-1111	Registered Nurses	\$20.63	\$27.69	\$22.66	\$27.07	\$32.74
21-1015	Rehabilitation Counselors	\$7.49	\$16.24	\$7.80	\$9.00	\$20.41
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	\$8.31	\$10.59	\$8.81	\$10.15	\$12.10
29-1126	Respiratory Therapists	\$17.25	\$22.74	\$18.61	\$21.72	\$26.14
41-2031	Retail Salespersons	\$6.75*	\$10.37	\$7.02	\$8.25	\$10.95
47-2181	Roofers	\$12.03	\$18.76	\$13.83	\$19.50	\$22.79
41-0000	Sales and Related Occupations	\$6.83	\$13.26	\$7.20	\$9.09	\$15.39
41-9031	Sales Engineers	\$17.27	\$26.33	\$19.88	\$26.95	\$32.91
11-2022	Sales Managers	\$20.45	\$33.53	\$23.62	\$30.35	\$43.08

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
41-3099	Sales Representatives, Services, All Other	\$12.91	\$22.14	\$14.70	\$19.20	\$26.80
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Product	\$13.22	\$24.60	\$15.66	\$21.22	\$30.55
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	\$12.51	\$23.32	\$13.33	\$17.77	\$26.74
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	\$6.75*	\$8.34	\$6.75*	\$7.95	\$10.16
25-2031	Secondary School Teachers, Except Special and Vocational Education	(2)	(2)	(2)	(2)	(2)
43-6014	Secretaries, Except Legal, Medical, and Executive	\$8.12	\$12.19	\$8.85	\$11.48	\$15.10
41-3031	Securities, Commodities, and Financial Services Sales Agents	\$14.30	\$34.70	\$16.65	\$24.59	\$53.84
49-2098	Security and Fire Alarm Systems Installers	\$12.87	\$17.17	\$13.64	\$16.51	\$19.92
33-9032	Security Guards	\$6.80	\$8.53	\$6.93	\$7.59	\$9.47
25-3021	Self-Enrichment Education Teachers	\$10.23	\$17.74	\$12.31	\$16.26	\$24.25
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and	\$8.19	\$12.57	\$8.95	\$11.57	\$15.64
53-6031	Service Station Attendants	\$6.75*	\$7.90	\$6.94	\$7.55	\$8.62
47-5013	Service Unit Operators, Oil, Gas, and Mining	\$20.04	\$23.54	\$21.22	\$24.28	\$26.51
51-6031	Sewing Machine Operators	\$6.75*	\$8.11	\$6.82	\$7.33	\$9.58
47-2211	Sheet Metal Workers	\$9.56	\$17.30	\$11.12	\$16.23	\$24.20
43-5071	Shipping, Receiving, and Traffic Clerks	\$7.82	\$11.30	\$8.53	\$10.66	\$13.64
51-6041	Shoe and Leather Workers and Repairers	\$6.75*	\$6.95	\$6.75*	\$6.75*	\$6.97
11-9151	Social and Community Service Managers	\$13.43	\$21.73	\$15.44	\$20.95	\$27.04
21-1093	Social and Human Service Assistants	\$7.75	\$13.08	\$8.28	\$10.32	\$16.29



SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	(2)	(2)	(2)	(2)	(2)
25-2043	Special Education Teachers, Secondary School	(2)	(2)	(2)	(2)	(2)
29-1127	Speech-Language Pathologists	\$21.85	\$30.29	\$24.77	\$29.32	\$34.91
51-8021	Stationary Engineers and Boiler Operators	\$17.98	\$23.90	\$19.29	\$24.74	\$28.36
43-5081	Stock Clerks and Order Fillers	\$7.09	\$10.09	\$7.51	\$9.27	\$11.53
47-2221	Structural Iron and Steel Workers	\$12.56	\$15.19	\$12.59	\$13.85	\$16.75
21-1011	Substance Abuse and Behavioral Disorder Counselors	\$9.99	\$13.63	\$11.29	\$13.46	\$16.18
29-2055	Surgical Technologists	\$11.81	\$16.44	\$13.48	\$16.31	\$19.58
17-3031	Surveying and Mapping Technicians	\$15.35	\$22.30	\$18.42	\$23.91	\$26.80
17-1022	Surveyors	\$16.55	\$24.36	\$19.35	\$24.94	\$29.93
43-2011	Switchboard Operators, Including Answering Service	\$7.61	\$8.58	\$7.49	\$8.08	\$8.68
51-6052	Tailors, Dressmakers, and Custom Sewers	\$7.95	\$11.20	\$8.88	\$10.48	\$14.11
47-2082	Tapers	\$8.34	\$15.58	\$9.92	\$15.29	\$21.09
13-2081	Tax Examiners, Collectors, and Revenue Agents	\$13.56	\$17.37	\$14.65	\$16.72	\$19.81
53-3041	Taxi Drivers and Chauffeurs	\$7.33	\$10.55	\$7.95	\$9.86	\$12.61
25-9041	Teacher Assistants	(2)	(2)	(2)	(2)	(2)
51-2092	Team Assemblers	\$7.31	\$10.71	\$8.03	\$10.03	\$12.97
27-3042	Technical Writers	\$18.74	\$28.51	\$20.90	\$25.54	\$33.79
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	\$16.06	\$21.88	\$18.95	\$22.76	\$26.11

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
49-9052	Telecommunications Line Installers and Repairers	\$19.93	\$23.70	\$22.38	\$24.76	\$26.82
41-9041	Telemarketers	\$7.32	\$10.72	\$7.55	\$8.95	\$11.37
43-3071	Tellers	\$8.40	\$10.28	\$8.82	\$10.02	\$11.39
47-2044	Tile and Marble Setters	\$13.23	\$19.09	\$14.97	\$18.81	\$21.72
49-3093	Tire Repairers and Changers	\$7.66	\$10.51	\$8.27	\$10.51	\$12.40
51-4111	Tool and Die Makers	\$16.13	\$20.52	\$17.44	\$19.98	\$22.45
51-4194	Tool Grinders, Filers, and Sharpeners	\$8.17	\$9.72	\$8.45	\$9.45	\$10.74
13-1073	Training and Development Specialists	\$11.79	\$18.73	\$13.84	\$16.99	\$21.35
53-0000	Transportation and Material Moving Occupations	\$6.91	\$11.73	\$7.33	\$9.80	\$14.55
53-6051	Transportation Inspectors	\$23.01	\$28.00	\$23.64	\$26.29	\$32.48
11-3071	Transportation, Storage, and Distribution Managers	\$19.40	\$30.90	\$22.19	\$29.23	\$38.56
41-3041	Travel Agents	\$7.43	\$11.66	\$8.26	\$11.51	\$14.03
53-3032	Truck Drivers, Heavy and Tractor-Trailer	\$11.65	\$16.36	\$12.69	\$15.33	\$19.61
53-3033	Truck Drivers, Light or Delivery Services	\$7.52	\$11.74	\$8.22	\$10.55	\$15.05
51-6093	Upholsterers	\$8.94	\$10.73	\$9.27	\$10.43	\$12.22
19-3051	Urban and Regional Planners	\$12.82	\$21.18	\$16.74	\$21.46	\$26.26
39-3031	Ushers, Lobby Attendants, and Ticket Takers	\$6.75*	\$7.80	\$6.75*	\$7.33	\$8.37
29-1131	Veterinarians	\$24.81	\$36.14	\$26.45	\$33.82	\$48.33
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	\$6.75*	\$8.10	\$7.01	\$7.78	\$8.99
29-2056	Veterinary Technologists and Technicians	\$8.22	\$9.89	\$8.59	\$9.68	\$10.90
25-1194	Vocational Education Teachers, Postsecondary	\$12.53	\$20.96	\$14.18	\$18.80	\$25.70
25-2032	Vocational Education Teachers, Secondary School	(2)	(2)	(2)	(2)	(2)

SOC Code	Occupational Title	Entry-Level Hourly Wage (1)	Mean Hourly Wage	25th Percentile Hourly Wage	50th Percentile (Median) Hourly Wage	75th Percentile Hourly Wage
35-3031	Waiters and Waitresses	\$6.75*	\$6.92	\$6.75*	\$6.75*	\$7.15
49-9064	Watch Repairers	\$6.75*	\$8.03	\$6.75*	\$6.94	\$9.24
51-8031	Water and Liquid Waste Treatment Plant and System Operators	\$14.35	\$17.66	\$15.27	\$16.94	\$18.69
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	\$8.48	\$13.10	\$9.29	\$12.53	\$16.22
51-4121	Welders, Cutters, Solderers, and Brazers	\$9.71	\$13.57	\$10.69	\$13.33	\$15.82
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	\$10.20	\$14.21	\$10.75	\$13.73	\$17.84
13-1022	Wholesale and Retail Buyers, Except Farm Products	\$11.75	\$18.71	\$13.55	\$17.85	\$21.36
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	\$7.73	\$9.66	\$7.69	\$8.52	\$11.48
43-9022	Word Processors and Typists	\$9.01	\$14.51	\$10.12	\$13.57	\$17.76
19-1023	Zoologists and Wildlife Biologists	\$16.88	\$26.80	\$19.37	\$25.83	\$32.61

#### Data

- (1) The mean of the first third of the wage distribution is provided as a proxy for entry-level wage
  - (2) For some occupations, workers may not work full-time all year-round. For these occupations it is not feasible to calculate an hourly wage.
  - (3) For occupations where a substantial portion of workers earn more than \$70.00 per hour (the top step in the 2001 OES survey), the mean hourly and annual wages cannot be reliably calculated. This may occasionally apply to the entry-level wage as well.
  - (4) An estimate of employment could not be provided.
  - (5) The "Mean Relative Standard Error" is a measure of the relative precision of the wage estimate. A low number denotes relatively high validity.
- \* The survey reference date was in the fourth quarter of 2001, when the California minimum wage was \$6.25 per hour. Since these wages were updated to 2002, and the minimum wage changed to \$6.75 per hour on January 1, 2002, wages below \$6.75 were set to \$6.75 per hour.

**Source:** Employment Development Department  
Labor Market Information Division  
(916) 262-2162





**Module F:**

**Social &  
Economic Data**



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# Introduction To Social And Economic Data Tables

The data for the Social and Economic Data Tables were developed from a variety of sources to aid local organizations in identifying target group needs and in making appropriate resource allocations for employment and training activities.

Terms expressed in these tables are those commonly used by the U.S. Department of Commerce, the Bureau of the Census and the various state agencies which supplied the data. (The specified source of the data is noted at the bottom of each table.) To aid users of this publication, these terms are defined in the *Explanation of Terms and Concepts* section at the back of this packet.

## **Automated Access**

Electronic access to current data is available through the Employment Development Department's Internet address at:

**[www.calmis.ca.gov](http://www.calmis.ca.gov)**

For technical assistance or additional information about the Employment Development Department's Labor Market Information Division Internet website, please call (916) 262-2162 or FAX (916) 262-2443 to order other publications.





**TABLE 1**  
**PUBLIC ASSISTANCE RECIPIENTS BY PROGRAM**  
**2000 - 2002**  
**MADERA COUNTY**

Recipients by Program	July			CALIFORNIA
	2000	2001	2002	July 2002
California Work Opportunity and Responsibility To Kids (CalWORKs) (a) . . . . .	8,928	8,510	8,712	1,331,704
Adults . . . . .	2,308	2,111	2,124	297,063
Children . . . . .	6,620	6,399	6,588	1,034,641
Food Stamps (b) . . . . .	11,957	11,780	12,281	1,529,445
General Relief (c) . . . . .	114	128	120	95,718
Refugee Cash Assistance (d) . . . . .	0	0	0	1,362
Welfare to Work (e) . . . . .	2,091	1,993	2,030	266,670

Source: California Department of Social Services

To access detailed reports for county comparisons, visit the California Department of Social Services Internet address at: <http://www.dss.cahwnet.gov/research>

CalWORKs: see report CA 237; Food Stamps: see report DFA 256;

General Relief: see report GR 237; Welfare to Work: see reports WTW 25 and WTW 25A.

(a) Data include foster care children.

(b) Includes those persons receiving public assistance payments and those not receiving public assistance payments.

(c) General Relief data for July 2001 were not available. Data provided are for March 2001.

(d) Refugee Cash Assistance data are for the third quarter and exclude CalWORKs recipients.

(e) With the passage of the Federal Personal Responsibility and Work Opportunity Act of 1996 and California's subsequent implementation of the California Work Opportunity and Responsibility to Kids Act (CalWORKs), the requirement for recipients of aid to participate in work related activities increased significantly. This number represents the number of CalWORKs recipients who have been enrolled or have been sent a notice to participate in Welfare to Work activities. These individuals may be required to participate or be willing to participate in these activities.

**TABLE 2**  
**PUBLIC ASSISTANCE RECIPIENTS (CalWORKs)**  
**CHARACTERISTICS OF RECIPIENTS 16 YEARS AND OLDER**  
**2000 - 2002**  
**MADERA COUNTY**

Characteristics	July			CALIFORNIA July 2002
	2000	2001	2002	
Total Recipients 16+ (a) (b) . . . . .	3,090	2,950	3,020	461,210
Male . . . . .	590	560	580	88,310
Female . . . . .	2,500	2,390	2,440	373,040
16-20 . . . . .	650	620	640	97,300
21-44 . . . . .	2,200	2,100	2,150	328,710
45-54 . . . . .	190	180	180	28,150
55+ . . . . .	50	50	50	7,200
White (Not Hispanic) . . . . .	930	860	920	113,140
Black (Not Hispanic) . . . . .	210	190	180	101,960
Hispanic . . . . .	1,880	1,840	1,870	206,470
Asian & Pacific Islander . . . . .	20	10	10	33,350
American Indian . . . . .	50	40	40	3,290
Filipino . . . . .	*	*	0	3,000

**(CalWORKs)** California Work Opportunity And Responsibility To Kids

Source: California Department of Social Services; U.S. Department of Commerce, Bureau of the Census; Detailed data by sex, age, and race/ethnicity are extrapolations based on aggregate figures provided by the Department of Social Services.

To access the detailed report for county comparisons, visit the California Department of Social Services Internet address at: <http://www.dss.cahwnet.gov/research>  
See report ABCD 350.

**(a)** Includes children in Two Parent, Zero Parent, All Others and Foster Care cases.

**(b)** Detail may not add to total due to independent rounding.

\* less than five

**TABLE 3**  
**Occupations With The Greatest Absolute Job Growth (1)**  
**1999 - 2006**  
**MADERA COUNTY**

CA OES CODE	OCCUPATION	ANNUAL AVERAGES		NUMBER OF NEW JOBS	PERCENT CHANGE	MEAN ANNUAL WAGE	MEDIAN HOURLY WAGE (3)
		1999(2)	2006				
32502	REGISTERED NURSES	750	910	160	21.3	\$57,598	\$27.07
49023	CASHIERS	830	980	150	18.1	\$17,299	\$7.35
49011	SALESPERSONS, RETAIL	670	790	120	17.9	\$21,581	\$8.25
55347	GENERAL OFFICE CLERKS	580	670	90	15.5	\$24,184	\$11.32
63017	CORRECTION OFFICERS, JAILERS	370	460	90	24.3	\$47,677	\$23.44
31521	TEACHER AIDES, PARAPROFESSIONAL	370	450	80	21.6	(4)	(4)
66008	NURSE AIDES, ORDERLIES, ATTENDANTS	380	460	80	21.1	\$19,259	\$8.90
31308	TEACHERS--SECONDARY SCHOOL	510	580	70	13.7	\$52,206	(5)
55305	RECEPTIONISTS, INFORMATION CLERKS	200	270	70	35.0	\$20,570	\$9.70
19005	GENERAL MANAGERS, TOP EXECUTIVES	580	640	60	10.3	(6)	(6)
31305	TEACHERS--ELEMENTARY SCHOOL	780	840	60	7.7	\$45,229	(5)
41002	FIRST-LINE SUP/MGR--SALES	330	380	50	15.2	(7)	(7)
51002	FIRST-LINE SUP/MGR, CLERK, ADM SUP	290	340	50	17.2	\$41,751	\$19.94
65008	WAITERS AND WAITRESSES	350	400	50	14.3	\$14,397	\$6.75*
67002	MAIDS AND HOUSEKEEPING CLEANERS	300	350	50	16.7	\$15,091	\$7.10
21114	ACCOUNTANTS AND AUDITORS	220	260	40	18.2	\$47,436	\$20.48
31311	TEACHERS--SPECIAL EDUCATION	180	220	40	22.2	(8)	(8)
65041	COMBINED FOOD PREP AND SERVICE	430	470	40	9.3	\$14,501	\$6.89
66005	MEDICAL ASSISTANTS	110	150	40	36.4	\$21,582	\$9.91
32102	PHYSICIANS AND SURGEONS	130	160	30	23.1	(9)	>\$70.00

Source: Employment Development Department, Labor Market Information Division,  
Information Services Group and Occupational Employment Statistics Group

(1) Occupational Projections and OES Wages available online at [www.calmis.ca.gov](http://www.calmis.ca.gov)

(2) March 2001 Benchmark

(3) Median Hourly Wage is for the Fresno Metropolitan Statistical Area (MSA), which includes  
Fresno and Madera Counties.

(4) Teacher Aides, Paraprofessional - Include the following Occupations:

Teacher Assistants, SOC Code 25-9041, Mean Annual Wage \$20,628 - Median Hourly Wage See (5)

Education, Training, and Library Workers, All Other, SOC Code 25-9199, Mean Annual Wage \$20,818 - Median Hourly Wage \$8.84

(5) For some occupations, workers may not work full-time all year-round. For these occupations it is not  
feasible to calculate an hourly wage.

(6) General Managers, Top Executives - Include the following Occupations:

Chief Executives, SOC Code 11-1011, Mean Annual Wage \$107,764 - Median Hourly Wage \$53.77;

Farm, Ranch and Other Agricultural Managers, SOC Code 11-9011, Mean Annual Wage \$51,908 - Median Hourly Wage \$21.90;

Sales Managers, SOC Code 11-2022, Mean Annual Wage \$69,745 - Median Hourly Wage \$30.35;

Gaming Managers, SOC Code 11-9071, Mean Annual Wage \$79,733 - Median Hourly Wage \$35.15

(7) First Line Supervisor / Manager Sales - Includes the following Occupations:

First-Line Supervisors / Managers of Retail Sales Workers, SOC 41-1011, Mean Annual Wage \$35,887 - Median Hourly Wage \$14.46;

First-Line Supervisors / Managers of Non-Retail Sales Workers, SOC 41-1012, Mean Annual Wage \$63,825 - Median Hourly Wage \$26.85

(8) Teachers Special Education - Include the following Occupations:

Special Education Teachers, Preschool, Kindergarten, Elementary School, SOC 25-2041, Mean Annual Wage \$41,505 - Median Hourly Wage See (5)

Special Education Teachers, Middle School, SOC 25-2042, Mean Annual Wage \$51,872 - Median Hourly Wage See (5)

Special Education Teachers, Secondary School, SOC 25-2043, Mean Annual Wage \$53,867 - Median Hourly Wage See (5)

(9) For occupations where a substantial portion of workers earn more than \$70.00 per hour (the top step in the 2001 OES survey),  
the mean hourly and annual wages cannot be reliably calculated. This may occasionally apply to the entry-level wage as well

\* The survey reference date was in the fourth quarter of 2001, when the California minimum wage was \$6.25 per hour. Since these wages  
were updated to 2002, and the minimum wage changed to \$6.75 per hour on January 1, 2002, wages below \$6.75 were set to \$6.75 per hour.



**TABLE 4**  
**LOWER LIVING STANDARD INCOME LEVEL (LLSIL)**  
**AND POVERTY GUIDELINES**  
**2002**

**Table 1 — San Diego Metropolitan Statistical Area**

<b>San Diego</b>							
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
<b>70% LLSIL (a)</b>							
Annual	\$8,450	\$13,850	\$19,010	\$23,460	\$27,690	\$32,380	\$4,690
6 Months	\$4,225	\$6,925	\$9,505	\$11,730	\$13,845	\$16,190	\$2,345
100%	\$12,070	\$19,780	\$27,150	\$33,510	\$39,550	\$46,250	\$6,700
<b>Poverty Guidelines (a)</b>							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540

**Table 2 — Los Angeles/Riverside/Orange County Metropolitan Statistical Area**

Anaheim	Los Angeles County					San Bernardino County	
Carson/Lomita/Torrance	Orange County					SELACO	
Foothill	Riverside County					South Bay	
Long Beach	Santa Ana					Ventura	
Los Angeles City	San Bernardino City					Verdugo	
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
70% LLSIL (a)							
Annual	\$7,900	\$12,940	\$17,770	\$21,930	\$25,880	\$30,270	\$4,390
6 Months	\$3,950	\$6,470	\$8,885	\$10,965	\$12,940	\$15,135	\$2,195
100%	\$11,280	\$18,490	\$25,380	\$31,330	\$36,970	\$43,240	\$6,270
Poverty Guidelines (a)							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540

**TABLE 4**  
**LOWER LIVING STANDARD INCOME LEVEL (LLSIL)**  
**AND POVERTY GUIDELINES**  
**2002**

**Table 3 — San Francisco/Oakland/San Jose Metropolitan Statistical Area**

<b>Alameda</b>	<b>Oakland</b>						<b>Santa Cruz</b>
<b>Contra Costa</b>	<b>Richmond</b>						<b>Solano</b>
<b>Marin</b>	<b>San Francisco</b>						<b>Sonoma</b>
<b>Napa</b>	<b>San Jose</b>						
<b>NOVA</b>	<b>San Mateo</b>						
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
<b>70% LLSIL (a)</b>							
Annual	\$8,570	\$14,040	\$19,270	\$23,790	\$28,080	\$32,840	\$4,760
6 Months	\$4,285	\$7,020	\$9,635	\$11,895	\$14,040	\$16,420	\$2,380
100%	\$12,240	\$20,060	\$27,540	\$33,990	\$40,110	\$46,910	\$6,800
<b>Poverty Guidelines (a)</b>							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540

**Table 4 — Other Metropolitan Areas**

<b>Fresno</b>	<b>NoRTEC</b>						<b>Stanislaus</b>
<b>Golden Sierra</b>	<b>North Central</b>						<b>Tulare</b>
<b>Kern/Inyo/Mono</b>	<b>Sacramento</b>						<b>Yolo</b>
<b>Merced</b>	<b>San Joaquin</b>						
<b>Monterey</b>	<b>Santa Barbara</b>						
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
<b>70% LLSIL (a)</b>							
Annual	\$7,820	\$12,810	\$17,580	\$21,700	\$25,610	\$29,950	\$4,340
6 Months	\$3,910	\$6,405	\$8,790	\$10,850	\$12,805	\$14,975	\$2,170
100%	\$11,160	\$18,290	\$25,110	\$30,990	\$36,570	\$42,770	\$6,200
<b>Poverty Guidelines (a)</b>							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540



**TABLE 4**  
**LOWER LIVING STANDARD INCOME LEVEL (LLSIL)**  
**AND POVERTY GUIDELINES**  
**2002**

**Table 5 — Nonmetropolitan Areas**

Humboldt		Mother Lode					
Imperial		San Benito					
Kings		San Luis Obispo					
Madera							
Mendocino							
	Family Size						
	One Member	Two Member	Three Member	Four Member	Five Member	Six Member	Each Additional Member Add
70% LLSIL (a)							
Annual	\$7,560	\$12,390	\$17,010	\$20,990	\$24,770	\$28,970	\$4,200
6 Months	\$3,780	\$6,195	\$8,505	\$10,495	\$12,385	\$14,485	\$2,100
100%	\$10,800	\$17,690	\$24,290	\$29,980	\$35,380	\$41,380	\$6,000
Poverty Guidelines (a)							
Annual	\$8,860	\$11,940	\$15,020	\$18,100	\$21,180	\$24,260	\$3,080
6 Months	\$4,430	\$5,970	\$7,510	\$9,050	\$10,590	\$12,130	\$1,540

Source: State of California, Workforce Investment Division, Workforce Investment Act Directive,  
Number: WIAD01-18, Dated June 11, 2002.

(a) Tables 1 through 5 show the 70 percent LLSIL and the poverty guidelines for western metropolitan and nonmetropolitan areas, and for three specific Metropolitan Statistical Areas in California. In addition, each LLSIL table includes the 100 percent LLSIL that establishes the Department of Labor's minimum self-sufficiency levels. Each table specifies which areas encompass which Local Workforce Investment Area (LWIA). For a family of one, in all tables, the poverty guidelines exceed the 70 percent LLSIL and, therefore, should be used to establish the low-income status. For all other family sizes, the LLSILs exceed the poverty guidelines. The last column in each table shows the amount to be added to the figure for a family of six for each additional family member.



**TABLE 5**  
**WORKFORCE INVESTMENT ACT**  
**PLANNING INFORMATION FOR LOCAL WORKFORCE INVESTMENT AREAS**  
**SELECTED CHARACTERISTICS BY AGE**

LWIA NAME: MADERA COUNTY  
 JURISDICTIONS INCLUDED: MADERA COUNTY

**JANUARY 10, 2003**

**CHARACTERISTICS OF VARIOUS POTENTIAL CLIENT GROUPS**

<b>LABOR FORCE STATUS (1)</b>		
EMPLOYED		47,657
UNEMPLOYED		6,842
UNEMPLOYMENT RATE		12.6
NOT IN LABOR FORCE (2)		38,844
<b>2002 VETERAN INFORMATION</b>		
TOTAL VETERANS (3)		7,355
MALE		7,010
FEMALE		345
VIETNAM ERA VETERANS - CENSUS 2000 (4)		3,035
DISABLED VETERANS (5)		820
OFFENDERS (6)		2,715
% OF PEOPLE IN POVERTY: MADERA COUNTY, 1998 (7)		22.9

**1990 CENSUS (8)**

FAMILIES IN POVERTY AS A % OF ALL FAMILIES 13.1

**CHARACTERISTICS OF ECONOMICALLY DISADVANTAGED PERSONS 14 TO 72 YEARS OLD (9)**

	14 - 15 (10)		16 - 21		22 - 54		55 - 72		Total 16 - 72	
	NUMBER	%	NUMBER	%	NUMBER	%	NUMBER	%	NUMBER	%
TOTAL ECONOMIC DISADVANTAGED	752	100.0	1,845	100.0	6,699	100.0	1,614	100.0	10,158	100.0
<b>BY RACE:</b>										
WHITE NOT HISPANIC	75	9.9	619	33.6	2,163	32.3	949	58.8	3,731	36.7
BLACK NOT HISPANIC	49	6.5	16	0.9	157	2.3	76	4.7	249	2.5
AMERICAN INDIAN NOT HISP	0	0	63	3.4	20	0.3	36	2.2	119	1.2
ASIAN NOT HISPANIC	15	2.1	0	0	127	1.9	29	1.8	156	1.5
PACIFIC ISLAND NOT HISP	0	0	0	0	0	0	0	0	0	0
HISPANIC	613	81.5	1,146	62.1	4,231	63.2	524	32.5	5,901	58.1
<b>BY SEX:</b>										
MALE	376	49.9	929	50.3	2,907	43.4	533	33.0	4,369	43.0
FEMALE	376	50.1	916	49.7	3,792	56.6	1,081	67.0	5,789	57.0
<b>HIGH SCHOOL EXPERIENCE:</b>										
DROPOUTS	0	0	551	29.8	3,767	56.2	1,060	65.7	5,378	52.9
GRADUATES	0	0	78	4.2	1,124	16.8	219	13.5	1,421	14.0
STUDENTS	286	38.1	930	50.4	217	3.2	0	0	1,147	11.3
DISABLED	0	0	217	11.7	1,113	16.6	735	45.5	2,065	20.3
LIMITED ENGLISH PROF	53	7.1	288	15.6	2,158	32.2	229	14.2	2,675	26.3

**TABLE 5**  
**WORKFORCE INVESTMENT ACT**  
**PLANNING INFORMATION FOR LOCAL WORKFORCE INVESTMENT AREAS**  
**SELECTED CHARACTERISTICS BY AGE**

Footnotes and data sources:

Source: Employment Development Department, Labor Market Information Division,  
 Current Economic Statistics Group.

Note: Data provided are the most recent available.

- (1) Labor force in this category refers to civilian labor force (16 years and older). This category includes, but is not limited to, the economically disadvantaged. Labor Force data are based on preliminary data (monthly average) for the period 12/2001 through 11/2002. March 2001 Benchmark.
- (2) Not in labor force (16 years and older) are those who are not employed and not actively seeking employment. This category includes, but is not limited to, the economically disadvantaged. Not in labor force data are based on preliminary labor force data (12/01 - 11/02), Department of Finance populations estimates as of 1/02 and working age populations from 1990 census data.
- (3) Department of Veterans Affairs, Office of the Actuary, Estimated Veteran Totals, September 30, 2002, Washington, D.C.
- (4) U.S. Census Bureau, Census 2000, American FactFinder.
- (5) Department of Veterans Affairs, Statistics for Veterans Receiving Compensation and Pension Benefits, February 14, 2002, Washington, D.C.
- (6) 2001 Criminal Justice Profile, California Department of Justice.
- (7) U.S. Census Bureau. County Estimates for People of All Ages in Poverty by County: California 1998 (Estimates model 1998 income reported in the March 1999 Current Population Survey.)
- (8) Based on poverty data from the 1990 census. The 2000 census data will not be available until 2005. The economically disadvantaged population was provided by the Employment and Training Administration from a custom tabulation provided by the United States Bureau of Census.
- (9) Data for each characteristic in this section were derived by an independent estimating process using census summary data and census public use micro sample. Totals may not match other data from the same sources.
- (10) Data are not included in **Total 16 - 72** column.

**Table DP-1. Profile of General Demographic Characteristics: 2000**

Geographic Area: Madera County, California

[For information on confidentiality protection, nonsampling error, and definitions, see text]

Subject	Number	Percent	Subject	Number	Percent
<b>Total population</b> .....	<b>123,109</b>	<b>100.0</b>	<b>HISPANIC OR LATINO AND RACE</b>		
<b>SEX AND AGE</b>			<b>Total population</b> .....	<b>123,109</b>	<b>100.0</b>
Male .....	58,911	47.9	Hispanic or Latino (of any race) .....	54,515	44.3
Female .....	64,198	52.1	Mexican .....	46,989	38.2
Under 5 years .....	9,443	7.7	Puerto Rican .....	392	0.3
5 to 9 years .....	10,519	8.5	Cuban .....	169	0.1
10 to 14 years .....	10,134	8.2	Other Hispanic or Latino .....	6,965	5.7
15 to 19 years .....	10,174	8.3	Not Hispanic or Latino .....	68,594	55.7
20 to 24 years .....	8,324	6.8	White alone .....	57,391	46.6
25 to 34 years .....	16,865	13.7	<b>RELATIONSHIP</b>		
35 to 44 years .....	18,951	15.4	<b>Total population</b> .....	<b>123,109</b>	<b>100.0</b>
45 to 54 years .....	15,353	12.5	In households .....	115,009	93.4
55 to 59 years .....	5,367	4.4	Householder .....	36,155	29.4
60 to 64 years .....	4,383	3.6	Spouse .....	22,016	17.9
65 to 74 years .....	7,671	6.2	Child .....	39,788	32.3
75 to 84 years .....	4,537	3.7	Own child under 18 years .....	31,274	25.4
85 years and over .....	1,388	1.1	Other relatives .....	10,169	8.3
Median age (years) .....	32.7	(X)	Under 18 years .....	3,980	3.2
18 years and over .....	86,642	70.4	Nonrelatives .....	6,881	5.6
Male .....	40,062	32.5	Unmarried partner .....	2,174	1.8
Female .....	46,580	37.8	In group quarters .....	8,100	6.6
21 years and over .....	81,133	65.9	Institutionalized population .....	7,574	6.2
62 years and over .....	16,153	13.1	Noninstitutionalized population .....	526	0.4
65 years and over .....	13,596	11.0	<b>HOUSEHOLD BY TYPE</b>		
Male .....	6,173	5.0	<b>Total households</b> .....	<b>36,155</b>	<b>100.0</b>
Female .....	7,423	6.0	Family households (families) .....	28,610	79.1
<b>RACE</b>			With own children under 18 years .....	14,536	40.2
One race .....	116,651	94.8	Married-couple family .....	22,016	60.9
White .....	76,612	62.2	With own children under 18 years .....	10,627	29.4
Black or African American .....	5,072	4.1	Female householder, no husband present .....	4,401	12.2
American Indian and Alaska Native .....	3,212	2.6	With own children under 18 years .....	2,705	7.5
Asian .....	1,566	1.3	Nonfamily households .....	7,545	20.9
Asian Indian .....	547	0.4	Householder living alone .....	5,975	16.5
Chinese .....	160	0.1	Householder 65 years and over .....	2,786	7.7
Filipino .....	371	0.3	Households with individuals under 18 years .....	16,333	45.2
Japanese .....	182	0.1	Households with individuals 65 years and over ..	9,464	26.2
Korean .....	60	-	Average household size .....	3.18	(X)
Vietnamese .....	38	-	Average family size .....	3.52	(X)
Other Asian <sup>1</sup> .....	208	0.2	<b>HOUSING OCCUPANCY</b>		
Native Hawaiian and Other Pacific Islander .....	210	0.2	<b>Total housing units</b> .....	<b>40,387</b>	<b>100.0</b>
Native Hawaiian .....	54	-	Occupied housing units .....	36,155	89.5
Guamanian or Chamorro .....	9	-	Vacant housing units .....	4,232	10.5
Samoan .....	97	0.1	For seasonal, recreational, or		
Other Pacific Islander <sup>2</sup> .....	50	-	occasional use .....	1,741	4.3
Some other race .....	29,979	24.4	Homeowner vacancy rate (percent) .....	1.7	(X)
Two or more races .....	6,458	5.2	Rental vacancy rate (percent) .....	4.5	(X)
<b>Race alone or in combination with one</b>			<b>HOUSING TENURE</b>		
<b>or more other races:</b> <sup>3</sup>			<b>Occupied housing units</b> .....	<b>36,155</b>	<b>100.0</b>
White .....	82,108	66.7	Owner-occupied housing units .....	23,934	66.2
Black or African American .....	5,728	4.7	Renter-occupied housing units .....	12,221	33.8
American Indian and Alaska Native .....	4,969	4.0	Average household size of owner-occupied units ..	3.01	(X)
Asian .....	2,361	1.9	Average household size of renter-occupied units ..	3.52	(X)
Native Hawaiian and Other Pacific Islander .....	457	0.4			
Some other race .....	34,270	27.8			

- Represents zero or rounds to zero. (X) Not applicable.

<sup>1</sup> Other Asian alone, or two or more Asian categories.<sup>2</sup> Other Pacific Islander alone, or two or more Native Hawaiian and Other Pacific Islander categories.<sup>3</sup> In combination with one or more of the other races listed. The six numbers may add to more than the total population and the six percentages may add to more than 100 percent because individuals may report more than one race.

Source: U.S. Census Bureau, Census 2000.



**Table DP-2. Profile of Selected Social Characteristics: 2000**

Geographic area: Madera County, California

[Data based on a sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see text]

Subject	Number	Percent	Subject	Number	Percent
<b>SCHOOL ENROLLMENT</b>			<b>NATIVITY AND PLACE OF BIRTH</b>		
Population 3 years and over enrolled in school .....	35,998	100.0	Total population .....	123,109	100.0
Nursery school, preschool .....	1,399	3.9	Native .....	98,356	79.9
Kindergarten .....	2,444	6.8	Born in United States .....	97,490	79.2
Elementary school (grades 1-8) .....	16,737	46.5	State of residence .....	73,514	59.7
High school (grades 9-12) .....	9,423	26.2	Different state .....	23,976	19.5
College or graduate school .....	5,995	16.7	Born outside United States .....	866	0.7
<b>EDUCATIONAL ATTAINMENT</b>			Foreign born .....	24,753	20.1
Population 25 years and over .....	74,830	100.0	Entered 1990 to March 2000 .....	10,728	8.7
Less than 9th grade .....	13,740	18.4	Naturalized citizen .....	6,089	4.9
9th to 12th grade, no diploma .....	12,161	16.3	Not a citizen .....	18,664	15.2
High school graduate (includes equivalency) .....	18,923	25.3	<b>REGION OF BIRTH OF FOREIGN BORN</b>		
Some college, no degree .....	16,745	22.4	Total (excluding born at sea) .....	24,753	100.0
Associate degree .....	4,279	5.7	Europe .....	1,103	4.5
Bachelor's degree .....	6,129	8.2	Asia .....	1,150	4.6
Graduate or professional degree .....	2,853	3.8	Africa .....	48	0.2
Percent high school graduate or higher .....	65.4	(X)	Oceania .....	40	0.2
Percent bachelor's degree or higher .....	12.0	(X)	Latin America .....	22,054	89.1
<b>MARITAL STATUS</b>			Northern America .....	358	1.4
Population 15 years and over .....	93,034	100.0	<b>LANGUAGE SPOKEN AT HOME</b>		
Never married .....	25,083	27.0	Population 5 years and over .....	113,722	100.0
Now married, except separated .....	51,812	55.7	English only .....	71,693	63.0
Separated .....	2,811	3.0	Language other than English .....	42,029	37.0
Widowed .....	4,900	5.3	Speak English less than "very well" .....	22,044	19.4
Female .....	3,978	4.3	Spanish .....	38,011	33.4
Divorced .....	8,428	9.1	Speak English less than "very well" .....	20,504	18.0
Female .....	5,296	5.7	Other Indo-European languages .....	2,319	2.0
<b>GRANDPARENTS AS CAREGIVERS</b>			Speak English less than "very well" .....	730	0.6
Grandparent living in household with one or more own grandchildren under 18 years .....	3,859	100.0	Asian and Pacific Island languages .....	869	0.8
Grandparent responsible for grandchildren .....	1,759	45.6	Speak English less than "very well" .....	266	0.2
<b>VETERAN STATUS</b>			<b>ANCESTRY (single or multiple)</b>		
Civilian population 18 years and over ..	86,721	100.0	Total population .....	123,109	100.0
Civilian veterans .....	10,213	11.8	Total ancestries reported .....	122,727	99.7
<b>DISABILITY STATUS OF THE CIVILIAN NONINSTITUTIONALIZED POPULATION</b>			Arab .....	256	0.2
Population 5 to 20 years .....	32,185	100.0	Czech <sup>1</sup> .....	214	0.2
With a disability .....	2,404	7.5	Danish .....	713	0.6
Population 21 to 64 years .....	61,015	100.0	Dutch .....	2,095	1.7
With a disability .....	15,975	26.2	English .....	8,706	7.1
Percent employed .....	51.7	(X)	French (except Basque) <sup>1</sup> .....	2,718	2.2
No disability .....	45,040	73.8	French Canadian <sup>1</sup> .....	227	0.2
Percent employed .....	64.8	(X)	German .....	11,908	9.7
Population 65 years and over .....	12,824	100.0	Greek .....	244	0.2
With a disability .....	5,591	43.6	Hungarian .....	245	0.2
<b>RESIDENCE IN 1995</b>			Irish <sup>1</sup> .....	9,092	7.4
Population 5 years and over .....	113,722	100.0	Italian .....	3,782	3.1
Same house in 1995 .....	60,028	52.8	Lithuanian .....	91	0.1
Different house in the U.S. in 1995 .....	49,592	43.6	Norwegian .....	1,278	1.0
Same county .....	28,232	24.8	Polish .....	795	0.6
Different county .....	21,360	18.8	Portuguese .....	1,879	1.5
Same state .....	18,587	16.3	Russian .....	591	0.5
Different state .....	2,773	2.4	Scotch-Irish .....	1,255	1.0
Elsewhere in 1995 .....	4,102	3.6	Scottish .....	1,814	1.5
			Slovak .....	54	-
			Subsaharan African .....	335	0.3
			Swedish .....	1,471	1.2
			Swiss .....	263	0.2
			Ukrainian .....	39	-
			United States or American .....	5,517	4.5
			Welsh .....	447	0.4
			West Indian (excluding Hispanic groups) .....	124	0.1
			Other ancestries .....	66,574	54.1

-Represents zero or rounds to zero. (X) Not applicable.

<sup>1</sup>The data represent a combination of two ancestries shown separately in Summary File 3. Czech includes Czechoslovakian. French includes Alsatian. French Canadian includes Acadian/Cajun. Irish includes Celtic.

Source: U.S. Bureau of the Census, Census 2000.



**Table DP-3. Profile of Selected Economic Characteristics: 2000**

Geographic area: Madera County, California

[Data based on a sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see text]

Subject	Number	Percent	Subject	Number	Percent
<b>EMPLOYMENT STATUS</b>			<b>INCOME IN 1999</b>		
Population 16 years and over .....	90,917	100.0	Households .....	36,207	100.0
In labor force .....	48,667	53.5	Less than \$10,000 .....	3,810	10.5
Civilian labor force .....	48,600	53.5	\$10,000 to \$14,999 .....	2,821	7.8
Employed .....	42,166	46.4	\$15,000 to \$24,999 .....	5,715	15.8
Unemployed .....	6,434	7.1	\$25,000 to \$34,999 .....	5,027	13.9
Percent of civilian labor force .....	13.2	(X)	\$35,000 to \$49,999 .....	6,513	18.0
Armed Forces .....	67	0.1	\$50,000 to \$74,999 .....	6,666	18.4
Not in labor force .....	42,250	46.5	\$75,000 to \$99,999 .....	2,702	7.5
Females 16 years and over .....	48,903	100.0	\$100,000 to \$149,999 .....	1,966	5.4
In labor force .....	20,905	42.7	\$150,000 to \$199,999 .....	534	1.5
Civilian labor force .....	20,905	42.7	\$200,000 or more .....	453	1.3
Employed .....	17,849	36.5	Median household income (dollars) .....	36,286	(X)
Own children under 6 years .....	10,647	100.0	With earnings .....	28,420	78.5
All parents in family in labor force .....	5,767	54.2	Mean earnings (dollars) <sup>1</sup> .....	47,200	(X)
<b>COMMUTING TO WORK</b>			With Social Security income .....	10,511	29.0
Workers 16 years and over .....	40,958	100.0	Mean Social Security income (dollars) <sup>1</sup> .....	11,041	(X)
Car, truck, or van -- drove alone .....	29,950	73.1	With Supplemental Security Income .....	2,380	6.6
Car, truck, or van -- carpooled .....	7,418	18.1	Mean Supplemental Security Income (dollars) <sup>1</sup> .....	6,540	(X)
Public transportation (including taxicab) .....	294	0.7	With public assistance income .....	2,909	8.0
Walked .....	985	2.4	Mean public assistance income (dollars) <sup>1</sup> .....	5,024	(X)
Other means .....	582	1.4	With retirement income .....	6,341	17.5
Worked at home .....	1,729	4.2	Mean retirement income (dollars) <sup>1</sup> .....	15,533	(X)
Mean travel time to work (minutes) <sup>1</sup> .....	26.3	(X)	Families .....	28,890	100.0
Employed civilian population 16 years and over .....	42,166	100.0	Less than \$10,000 .....	2,366	8.2
<b>OCCUPATION</b>			\$10,000 to \$14,999 .....	1,884	6.5
Management, professional, and related occupations .....	10,403	24.7	\$15,000 to \$24,999 .....	4,325	15.0
Service occupations .....	7,095	16.8	\$25,000 to \$34,999 .....	4,036	14.0
Sales and office occupations .....	9,898	23.5	\$35,000 to \$49,999 .....	5,534	19.2
Farming, fishing, and forestry occupations .....	4,084	9.7	\$50,000 to \$74,999 .....	5,642	19.5
Construction, extraction, and maintenance occupations .....	4,284	10.2	\$75,000 to \$99,999 .....	2,441	8.4
Production, transportation, and material moving occupations .....	6,402	15.2	\$100,000 to \$149,999 .....	1,791	6.2
<b>INDUSTRY</b>			\$150,000 to \$199,999 .....	483	1.7
Agriculture, forestry, fishing and hunting, and mining .....	5,916	14.0	\$200,000 or more .....	388	1.3
Construction .....	2,773	6.6	Median family income (dollars) .....	39,226	(X)
Manufacturing .....	4,264	10.1	Per capita income (dollars) <sup>1</sup> .....	14,682	(X)
Wholesale trade .....	1,376	3.3	Median earnings (dollars):		
Retail trade .....	4,605	10.9	Male full-time, year-round workers .....	33,658	(X)
Transportation and warehousing, and utilities .....	2,106	5.0	Female full-time, year-round workers .....	24,415	(X)
Information .....	770	1.8			
Finance, insurance, real estate, and rental and leasing .....	2,025	4.8		Number below poverty level	Percent below poverty level
Professional, scientific, management, administrative, and waste management services .....	2,495	5.9	<b>POVERTY STATUS IN 1999</b>		
Educational, health and social services .....	8,114	19.2	Families .....	4,581	15.9
Arts, entertainment, recreation, accommodation and food services .....	3,227	7.7	With related children under 18 years .....	3,793	23.1
Other services (except public administration) .....	2,074	4.9	With related children under 5 years .....	2,338	33.0
Public administration .....	2,421	5.7	Families with female householder, no husband present .....	1,487	37.0
<b>CLASS OF WORKER</b>			With related children under 18 years .....	1,343	43.7
Private wage and salary workers .....	30,442	72.2	With related children under 5 years .....	803	60.6
Government workers .....	7,490	17.8	Individuals .....	24,514	21.4
Self-employed workers in own not incorporated business .....	4,030	9.6	18 years and over .....	14,181	17.9
Unpaid family workers .....	204	0.5	65 years and over .....	1,157	9.0
			Related children under 18 years .....	10,071	28.6
			Related children 5 to 17 years .....	6,704	25.8
			Unrelated individuals 15 years and over .....	4,876	35.8

-Represents zero or rounds to zero. (X) Not applicable.

<sup>1</sup>If the denominator of a mean value or per capita value is less than 30, then that value is calculated using a rounded aggregate in the numerator. See text.

Source: U.S. Bureau of the Census, Census 2000.



**Table DP-4. Profile of Selected Housing Characteristics: 2000**

Geographic area: Madera County, California

[Data based on a sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see text]

Subject	Number	Percent	Subject	Number	Percent
<b>Total housing units</b> .....	<b>40,387</b>	<b>100.0</b>	<b>OCCUPANTS PER ROOM</b>		
<b>UNITS IN STRUCTURE</b>			<b>Occupied housing units</b> .....	<b>36,155</b>	<b>100.0</b>
1-unit, detached .....	30,854	76.4	1.00 or less .....	30,608	84.7
1-unit, attached .....	1,341	3.3	1.01 to 1.50 .....	2,613	7.2
2 units .....	499	1.2	1.51 or more .....	2,934	8.1
3 or 4 units .....	1,619	4.0			
5 to 9 units .....	1,012	2.5	<b>Specified owner-occupied units</b> .....	<b>19,155</b>	<b>100.0</b>
10 to 19 units .....	365	0.9	<b>VALUE</b>		
20 or more units .....	1,334	3.3	Less than \$50,000 .....	399	2.1
Mobile home .....	3,068	7.6	\$50,000 to \$99,999 .....	6,714	35.1
Boat, RV, van, etc .....	295	0.7	\$100,000 to \$149,999 .....	6,660	34.8
			\$150,000 to \$199,999 .....	3,218	16.8
<b>YEAR STRUCTURE BUILT</b>			\$200,000 to \$299,999 .....	1,530	8.0
1999 to March 2000 .....	1,252	3.1	\$300,000 to \$499,999 .....	519	2.7
1995 to 1998 .....	3,619	9.0	\$500,000 to \$999,999 .....	88	0.5
1990 to 1994 .....	6,620	16.4	\$1,000,000 or more .....	27	0.1
1980 to 1989 .....	8,408	20.8	Median (dollars) .....	118,800	(X)
1970 to 1979 .....	8,378	20.7			
1960 to 1969 .....	3,907	9.7	<b>MORTGAGE STATUS AND SELECTED</b>		
1940 to 1959 .....	6,295	15.6	<b>MONTHLY OWNER COSTS</b>		
1939 or earlier .....	1,908	4.7	With a mortgage .....	14,199	74.1
<b>ROOMS</b>			Less than \$300 .....	86	0.4
1 room .....	733	1.8	\$300 to \$499 .....	553	2.9
2 rooms .....	2,191	5.4	\$500 to \$699 .....	1,859	9.7
3 rooms .....	4,304	10.7	\$700 to \$999 .....	4,727	24.7
4 rooms .....	5,482	13.6	\$1,000 to \$1,499 .....	4,987	26.0
5 rooms .....	10,021	24.8	\$1,500 to \$1,999 .....	1,438	7.5
6 rooms .....	9,473	23.5	\$2,000 or more .....	549	2.9
7 rooms .....	4,738	11.7	Median (dollars) .....	993	(X)
8 rooms .....	2,111	5.2	Not mortgaged .....	4,956	25.9
9 or more rooms .....	1,334	3.3	Median (dollars) .....	267	(X)
Median (rooms) .....	5.2	(X)	<b>SELECTED MONTHLY OWNER COSTS</b>		
<b>Occupied housing units</b> .....	<b>36,155</b>	<b>100.0</b>	<b>AS A PERCENTAGE OF HOUSEHOLD</b>		
<b>YEAR HOUSEHOLDER MOVED INTO UNIT</b>			<b>INCOME IN 1999</b>		
1999 to March 2000 .....	7,095	19.6	Less than 15.0 percent .....	5,485	28.6
1995 to 1998 .....	10,266	28.4	15.0 to 19.9 percent .....	3,051	15.9
1990 to 1994 .....	7,428	20.5	20.0 to 24.9 percent .....	2,623	13.7
1980 to 1989 .....	6,177	17.1	25.0 to 29.9 percent .....	1,981	10.3
1970 to 1979 .....	3,189	8.8	30.0 to 34.9 percent .....	1,567	8.2
1969 or earlier .....	2,000	5.5	35.0 percent or more .....	4,285	22.4
			Not computed .....	163	0.9
<b>VEHICLES AVAILABLE</b>					
None .....	2,926	8.1	<b>Specified renter-occupied units</b> .....	<b>11,495</b>	<b>100.0</b>
1 .....	10,933	30.2	<b>GROSS RENT</b>		
2 .....	14,517	40.2	Less than \$200 .....	349	3.0
3 or more .....	7,779	21.5	\$200 to \$299 .....	645	5.6
			\$300 to \$499 .....	3,248	28.3
<b>HOUSE HEATING FUEL</b>			\$500 to \$749 .....	3,944	34.3
Utility gas .....	11,152	30.8	\$750 to \$999 .....	1,791	15.6
Bottled, tank, or LP gas .....	11,140	30.8	\$1,000 to \$1,499 .....	418	3.6
Electricity .....	8,585	23.7	\$1,500 or more .....	42	0.4
Fuel oil, kerosene, etc .....	50	0.1	No cash rent .....	1,058	9.2
Coal or coke .....	9	-	Median (dollars) .....	562	(X)
Wood .....	4,681	12.9			
Solar energy .....	22	0.1	<b>GROSS RENT AS A PERCENTAGE OF</b>		
Other fuel .....	384	1.1	<b>HOUSEHOLD INCOME IN 1999</b>		
No fuel used .....	132	0.4	Less than 15.0 percent .....	1,625	14.1
<b>SELECTED CHARACTERISTICS</b>			15.0 to 19.9 percent .....	1,449	12.6
Lacking complete plumbing facilities .....	278	0.8	20.0 to 24.9 percent .....	1,488	12.9
Lacking complete kitchen facilities .....	171	0.5	25.0 to 29.9 percent .....	1,126	9.8
No telephone service .....	844	2.3	30.0 to 34.9 percent .....	858	7.5
			35.0 percent or more .....	3,787	32.9
			Not computed .....	1,162	10.1

-Represents zero or rounds to zero. (X) Not applicable.

Source: U.S. Bureau of the Census, Census 2000.



# Explanation Of Terms And Concepts

**American Indian and Alaska Native:** A person having origins in any of the original peoples of North and South America (including Central America), and who maintain tribal affiliation or community attachment.

**Asian:** A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent.

**Black or African American:** A person having origins in any of the Black racial groups of Africa.

**CalWORKs:** California Work Opportunity and Responsibility to Kids is a state designed public assistance program. Focus is on work and training; those who seek welfare must also seek work. Time and aid limits apply.

**Food Stamp Recipient:** A person receiving food stamp coupons that can be exchanged for groceries.

**General Relief:** A county administered assistance program which includes interim payments to the disabled, and payments to individuals who are ineligible for other assistance programs, such as CalWORKs and Refugee Cash Assistance.

**Hispanic:** Census 2000 adheres to the federal standards for collecting and presenting data on race and Hispanic origin as established by the Office of Management and Budget (OMB) in October 1997. The OMB defines Hispanic or Latino as "a person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin regardless of race."

**Native Hawaiian and Other Pacific Islander:** A person having origins in any of the original peoples of Hawaii, Guam, Samoa, or other Pacific Islands.

**Public Assistance Recipient:** A person receiving cash welfare payments and/or nonmonetary benefits under federal, state, or local welfare programs.

**Refugee Cash Assistance:** A cash assistance and employment services program designed for adults without children who have official status as refugee, and who have been in the United States for less than eight months. Aid is limited to eight months.

**Some Other Race:** Includes all other census responses not included in the "White," "Black or African American," "American Indian and Alaska Native," "Asian," and the "Native Hawaiian and Other Pacific Islander" race categories. Respondents providing write-in entries such as multiracial, mixed, interracial, or a Hispanic/Latino group (for example, Mexican, Puerto Rican, or Cuban) are included in this category.

**Two or More Races:** Refers to a classification of census respondents who chose to provide two or more races.

**Veteran:** A person who has served but is not now serving in the armed forces of the United States.

**Vietnam-Era Veteran:** A person who served between August 5, 1964, and May 7, 1975, but is not now serving in the armed forces of the United States.

**Welfare-To-Work Program:** The Welfare-To-Work Program helps family members acquire the skills needed to get a job. The county will determine if a family must participate in Welfare-To-Work activities as a requirement for CalWORKs. Families may also volunteer to participate.

**White:** A person having origins in any of the original peoples of Europe, the Middle East, or North Africa.



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# Explanation Of Terms And Concepts

As the reader of this book will have noticed, the language of the text is often technical and sometimes difficult. It is the purpose of this section to explain the meaning of the terms and concepts used in the text, and to provide a glossary of the more important terms.

The first part of this section, which is headed "General Concepts", deals with the basic ideas and principles of the subject. The second part, which is headed "Technical Terms", deals with the more specific terms and concepts used in the text.

The third part of this section, which is headed "Glossary", contains a list of the more important terms and concepts used in the text, with brief definitions of each.

The fourth part of this section, which is headed "References", contains a list of the books and articles which have been consulted in the preparation of this book. The fifth part of this section, which is headed "Index", contains a list of the subjects and topics which are treated in the book.

The sixth part of this section, which is headed "Appendix", contains a list of the more important formulas and equations used in the text. The seventh part of this section, which is headed "Bibliography", contains a list of the books and articles which have been consulted in the preparation of this book.

The eighth part of this section, which is headed "Index", contains a list of the subjects and topics which are treated in the book. The ninth part of this section, which is headed "References", contains a list of the books and articles which have been consulted in the preparation of this book. The tenth part of this section, which is headed "Glossary", contains a list of the more important terms and concepts used in the text, with brief definitions of each.

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